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Wednesday April 23 1980



Adult jobless

total highest

since the war

Department of Employment

figures published yesterday show that the total number of

adults out of work in the UK

rose by 44,600 in the month to mid-April to 1,46m, seasonally adjusted. This is equivalent to

6 per cent of the workforce and

exceeds the previous post-war

peak of 1.42m in November 1977.

The unadjusted total of all

unemployed—1.52m in mid-

April—is still, however, well

below the post-war peak of 1.64m of August, 1977. This is

because the main batch of this

year's school leavers have yet to

come onto the labour market.

though they are likely to swell the mid-summer unemployment

The announcement of the fur-ther large rise in unemployment

led to a series of attacks on the

Government by Labour MPs and trade union leaders. Mr. Len

astrous attachment to mone-

The sharp rise in unemployment over the last month

occurred in spite of the end of

the steel strike. This might have been expected to have some favourable effect on the total.

The very strong upward trend in unemployment—an

average monthly rise of nearly 40,000 so far this year—has come slightly earlier than some

NEWS SUMMARY GENERAL

Sports leaders firm on Games

sports leaders bave pledged their support for the moscow Olympics, but have Moscow Olympics, but have called for a reduction in nationalist flag-waving and ceremony at the Games.

The heads of 26 federations,

at a meeting with the International Olympic Committee in Lausanne, Switzerland, said the games must go on no matter how many countries boycotted them as a result of the Soviet invasion of Afghanistan. They would not grant permission for any alternative games.

Company de

The federations called on all national Olympic committees to combat Odympic committees of combat political pressure and ensure that all qualified athletes could attend the games. But they urged the IOC to review the ceremonies in Massage.

Tolbert's men shot

Thirteen ministers and officials of the ousted Liberian govern-ment led by President Tolbert were executed by firing squad in Monrovia, for high treason and corruption.

Cubans rescued

A fleet-of Florida fishing boats returned to Miami after picking up 300 Cubans seeking to escape from President Castro's regime.

Honduras poli Honduras has elected its

Centrist Liberal Party to lead the country's first civilian government after eight years of military rple. With most of the votes counted the party is ex-pected to have 4 52 per cent majority. Page 4

Cape Town protest Police in Cape Town fired tear

gas to disperse a march by 8,000 About 100,000 students boycotted classes on Monday.

Housebuilding fall

The number of houses built in Britain this year could be the fowest for over 50 years, builders fear. Some believe that fewer than 100,000 private homes will be started, compared with 140,000 last year. Page 8

Fire kills 21

Twenty-one people died and 25 were injured in a fire at an old people's home in Dijon, France. Police said the blaze had been started deliberately.

Guernica to return

Pablo Picasso's masterpiece, Guernica, will be banded over to Spain in the autumn by the New York Museum of Modern Art. Four Spanish cities are contesting the right to exhibit the painting.

Footnote -

China has exported over 40,000 pairs of herb-scented shoes claimed to prevent sweaty feet and help cure beriberi, the Canton Daily reported.

Briefly . . .

Doctors said the condition of Yugoslavia's President Tito had improved slightly but was still exceptionally grave.

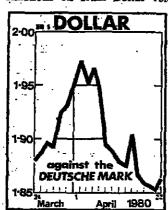
Forty-nine people who died from gunshot woulds have been taken to the Kampala, Uganda, mortuary in the past fortnight.

PUBLISHER'S NOTICE

The Financial Times apologises for errors con-tained in this issue which are due to difficulties in the reading department. We also apologise to readers in the London area who did not receive their copies of the newspaper yesterday. This was due to unofficial action members of SOGAT employed in the warehouse.

Dollar and **Sterling** firm

• DOLLAR AND STERLING were firm in spite of the EEC sanctions on Iran. Dollar rose



DM1.8610 (DM1.8510) and its trade-weighted index was 88.9 (88.7). Sterling closed 45 points higher at \$2.2375, and its index was 73.5 (73.2). Page 30

- GOLD closed \$8 up London at \$505.5. Page 30
- GILTS: Lull in investment demand led to profit-taking, and the Government Securities index fell 0.37 to 66.63. Page 40
- EQUITIES followed Gilts and the FT 30-share index closed 6.8 off at 434.3. The Gold Mines index dropped 14.0 to 287.2. Page 40
- WALL STREET was 21.50 up at 780.63 before the close.
- FIAT of Italy is reconsidering whether to subscribe to its share of Pta 2.8bn in the Pta 6bn (£38m) capital increase of Seaf the Spanish car group, which is scheduled for next month. Back Page
- BL CARS production at Longbridge, Birmingham, was halted after nearly 550 workers coloured (mixed race) children walked out in protest at the protesting against racial separa- company's attempt to enforce tion in South African schools. new pay package conditions. Back Page; Annual report, Page 8 and Lex, Back Page
 - BANQUE Bruxelles Lambert indicated that it is "suspending" its court action in New York against Chrysler for the recovery of its overdue \$10m (£4.47m) loan. Page 4
 - ROLLS-ROYCE lost its position as sole engine supplier for the Boeing 757 after Aloha Airlines of Hawaii said it would buy three of the aircraft with U.S. General Florida
 - CHINA'S Foreign Investment Commission approved the country's first joint ventures with foreign partners. Page 6
 - ISLE OF GRAIN power station project in Kent will be halted in June with the loss of 2.000 jobs, the CEGB announced. Back Page
 - NATIONAL WESTMINSTER Bank staff association recom mended rejection of the 18-21 per cent pay offer to clerical staff in the five leading English clearing banks. Page 9

COMPANIES

- AKZO, the Dutch chemicals and fibres group, plans to spend £30m to £40m on restructuring its UK subsidlary, British Enkalon. Back Page; Results,
- FAIRBAIRN LAWSON, the engineering group, requested its bankers to appoint a receiver Page 24
- S. PEARSON AND SON pretax profits in 1979 rose from £51.4m to £53.7m. The contribution from Pearson Longman was slightly higher at £25.7m.
- TOZER KEMSLEY and Mill bourn, the international finance and forest products group, raised pre-tax profits for 1979 from £7.63m to a record £16.01m. Page 24

CHIEF PRICE CHANGES YESTERDAY

~	
(Prices in pence unless otherwi	se indicated)
RISES:	Mallinson-Denny 72 - 3
Fodens 34 + 3	Marks and Spencer 87 - 4
Furness Withy 395 + 14	Meyer (M. L.) 103 - 4
Pearson (S.) 202 + 8	Oxley Printing 35 - 6
Pearson Longman 197 + 7	Report Theo . 943 - 5
Tozer Kemsley 79 + 4	Style
Tozer Kemsley 79 + 4 Travis and Arnold 272 + 22	Tootal 231- 2
United Carmers 136 + 6	Trusthouses Forte 172 - 8
	Anglo Am. Corp 525 - 25
FALLS:	Anglo Utd. Dev 87 - 6
Treausry 10 pc 1999 £761- 7	2-4-04-H1-0H1-GH1 812 30
Treasury 13 pc 2004	General Mining 660 - 40
2008 (£20 paid) £20 1 - 13	General Mining 660 — 40 Harmony 726 — 59
Allied Breweries 731 - 21	Impala Plat 250 - 20
Boots 186 - 7	Liberton 804 - 70
General Acordent 238 - 6	Minorco
Glaro $204 - 6$	North Kalenett 62 - 6
Grattan Warehouses 70 - 14 GKN 268 - 4	Ofter Exploration 58 - 6
GKN 268 - 4	Poseidon
Hambre Life 183 - 4	Randfortein 5274 - 2
Hill (C.) of Bristol 50 - 8	Samenths 62 - 8
101 269 8	Wit Nigel 107 - 14
ICI 362 - 8_	17 M. 111601 101

Oil sharing talks in Paris today

International Energy Agency called a meeting for today of its governing board in Paris to discuss possible emergency oilsharing measures.

In East Berlin an Iranian delegation began trade talks after Tehran's disclosure that it would look t oEastern Europe to sell its oil following the rejection by Japan and other western countries of its latest oil price rise. In Dubai the United Arab Emirates oil minister said his country may be willing to help

West Germany and Japan make good the expected loss in oil supplies from Iran provided this compiled with OPEC regulations.

On European foreign exchange markets the dollar and sterling were generally

firmer helped by speculation that the U.S. and Britain would be less severely hit than other countries by a cut in Iran's oil

In Tehran, Britain recalled its ambassador and began to reduce its embassy staff. About 300 UK businessmen and their wives and some diplomatic staff were expected to arrive in London today.

The Iran crises, Page 2

Nine set May 17 deadline for freeing Iran hostages

BY JOHN WYLES IN LUXEMBOURG

THE NINE members of the European Comunity rallied yes-terday to the support of the U.S. full trade sanctions against Iran unless the American hostages are released by May 17.

Agreement on one of the most far-reaching foreign policy decisions in the history of the Community took far longer than EEC foreign Ministers had expected. But at the ende of the day the Community's demonstra-tion of solidarity for the U.S. was largely based on the twoand outlined again yesterday by Lord Carrington, the Foreign

Limited diplomatic and econ-

and drinks comp

Pernod Ricard.

fighting a \$415m takeover bid

by Grand Metropolitan, has

agreed to sell one of its two wine nad spirit subsidiaries to

the French drinks group,

Pernod is offering \$97.5m in cash to buy Austin Nichols and

Co., which makes Wild Turkey,

a leading brand of bourbon, and

distributes Pernod, Campari

and other wines and spirits, in-

cluding some of Grand Met's

Austin Nichols profits last

valuation method and its sales

trust laws may be violated. One

offer tied to productivity con-

cessions has been accepted by a

resources to expand abroad. Friday night.

BY CHRISTIAN TYLER, LABOUR EDITOR

BY JOHN MACKINION AND IAN ROGERS

MUTCU

pected to be imposed by a meet- from other OPEC countries has ing of Community Foreign Ministers in Naples on May 17. By then the Nine are expected

Reduce their diplomatic representations in Tehran, includ- leave the EEC theoretically as ing possible withdrawal of Ambassadors. ■ Insist on reduction offrainan

- Embassy staff in EEC capitals. Place an immediate ban on all arms sales and shipments to
- Ban all new economic and trade agreements with Iran. stage approached table last week Introduce visa controls on Iranian nationals.

The most significant item missing from the final comthe omic measures will be taken Ministers was the question of against Iran between now and Iranian oil exports. Originally the middle of May. By then, the UK suggested banning all those countries that neew to purchases of Iranian oil as part principally the UK. Denmark of eht first stage of the package, and Ireland, will have passed but fears among some Govern-national enabling legislation to ments that this might provoke applied by the U.S. is both implement trade sanctions ex- a response sympathetic to Iran tactical and legal.

LIGGETT, THE U.S. tobacco Cash flow last year was Grand Met produces J&B

Asked if the deal might also

be subject to approval by French monetary authorities,

because of the purchase of a

a Pernod spokesman said, "that is one of the possibilities."
Concerned about U.S. money

supply growth, the Federal

Reserve Board has asked central

banks of Group of Ten countries

to restrain the raising of dollars

U.S. companies.

year were \$2.3m after a \$2.1m 9.5 per cent of its shares that it charge due to a change in stock was seeking other potential

The deal is subject to the various state courts for injuncusual 30-day delay while U.S. tions to prevent Grand Met from authorities decide whether anti-acquiring more shares.

reason Perriod advances for announced it would bid for all

making the offer is that it has the shares of Liggett and, while

almost no U.S. presence and fending off legal actions, seeks to use its large cash actually launched the bid last

The package includes conditions order to spread the load, and to

Office persuaded the UPW chairman, Sir William Barlow, National Executive to resurrect has had a particularly rough the productivity element— ride with the unions, a felief to the

rejected by a recent union needed for promotion. delegate conference in spite of A large ballot major

U.S. motor industry: signs of dislocation

Monetary policy on trial: inflation slow

Japan and U.S.: negotiations on cars

trade 6 Greece: end of the Karamanlis era 3

Management: causes and cures for UK's

industrial decline 11

the leadership's efforts to get it the pay and productivity

were almost entrely waive some qualifications now

their nationals for buying

Liggett said late last month

after Grand Met had acquired

was seeking other potential buyers for any or all of its businesses. It also resorted to

On April 14, Grand Met

Postmen expected to accept 15%

LEADERS OF the union of Post mail—as part of the annual wage UPW leadership, which has

Office Workers expect to negotiations. The proposals were suffered some serious defeats at announce that a 15 per cent pay put to a ballot about two weeks conferences in the last couple of

ago.
In return for a 15 per cent

large majority in a ballot pay increase, postmen would the right to go ahead unilater-Estimates of the majority agree to allow the transfer of ally with plans for taking on

nrough.

After t hat rebuff, the Post the Post office, whose outgoing ational Executive to resurrect the productivity element.

In the pay and productivity deal the past negotiations.

The pay proposals would raise the post office, whose outgoing chairman, Sir William Barlow ational Executive to resurrect the productivity element.

CONTENTS

Unit Trusts

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ANNUAL STATEMENTS

range as high as five to one. Work between sorting offices in casual staff to prevent a repeat

U.S. company with eurodollars,

Liggett agrees to sell

subsidiary to Pernod

led to deletion of the proposal. Ministers believe that Iran is bound to react to the package with a ban on oil shipments to EEC countries. This would

an injured party and possibly less vulnerable to OPEC action. There is no great optimism among EEC Governments that this initial phase of measures will induce the Iranians to release the hostages.

It is widely expected that the EEC will proceed to full sanc-tions at the Naples meeting. The only reason for postpon-

ing a decision then would be transfer of the custody of the hostages from the Iranian students to the Government of President Abol Hassan Bani

The justification for waiting more than three weeks for intro-

largest selling U.S. brand and is

distributed by Liggett's other

Grand Met finance director,

Mr. Clifford Smith, refused to

comment on the Pernod bid for

Austin Nichols last night, say-

ing the company had not had

Last August Grand Met

offered to buy Austin Nichols, believing it would be the best

vehicle for acquiring a direct

U.S. marketing presense, but

Asked why Pernod Ricard

Pernod had sales of FFr 4.5bn

had not bid sooner for Austin

Nichols, the Pernod spokesman said: "It was not for sale."

last year and operating profit of FFr 338m. Almost half its

sales come from Pernod itself.

the rest from other spirits and

wines, some of which it buys from others. Almost 75 per cent

The Post Office has reserved

of last summer's big postal back-

inner London from £121 to £137.

Gardens today: the luxuriance of the

Lombard: David Marsh on the IMF

World pulp and paper 15-20

BNOC ..

Brit. Trenspt Docks W. Canning .. Carron (Hdgs.) ...

Christie Intl.

Pearson Longman Scot, Life Assace. Stag Furniture ... Steel Bros.

log. This was included in the

Corporation.

time to discuss it.

A graduated response of the kind adopted may strengthen the Iranian moderates, believed to be led by Mr. Bani Sadr.
It is said that he has warned

the militant Islamic students

that not releasing the hostages would bring retribution, as indeed it will under the EEC But he has until May 17 to argue that Iran could face

much more severe repercussions unless moves as made toward freeing the hostages. An additional advantage of

delay is said to be that it enables the larnians to call the new Parliament due to be elected on May 9 into emergency serion to consider the bestages' future. the hostages' future.

The legal requirement for a delay on sanctions, explored at great length yesterday, hinges on the problems created by commercial and service con-tracts being rendered void, it Continued on Back Page

U.S. rates drop again

A FURTHER fall in U.S. vesterday prompted speculatio that a further cut in the prime rate may not be far drinks subsidiary, Paddington

> Prime rates are presently spread between 19} and 19} per cent. The fall in interest rates in the credit markets followed a sharp drop in Treasury bill rates on Mon-

Yesterday morning threemonth Treasury Bill rates were trading at around 12.60 U.S. consumer price rise per **ce**nt Liggett said it was not for sale. U.S. consumer prices, Back Page

BY PETER RIDDELL, ECONOMICS CORRESPONDENT. ADULT UNEMPLOYMENT is now at its highest level since the second world war. This U.K. UNEMPLOYMEN follows an increase of 194,000, or nearly 15½ per cent, since the total began to rise last At the same time, notified vacancies have continued to fall sharply and redundancies are rising rapidly. This suggests that industry is cutting back on its labour needs much earlier than previous recessions, in response to the current financial

employment droped by 135,000,

seasonally adjusted, in the six

months to January. The resulting shake-out is reflected both in the regional distribution of unemploymentnotably big increases in the Midlands and Yorkshire—and in theb ig jump in redundancies.

Redundancies in March are expected to reach 32,000, double the figure of a year ago, while the likely total for the first three months of this year is 85,000. This compares with 36,000 in the same period last year and exceeds even the figure of 72,000 in the first quarter of

A large proportion of the redundancies are in the iron and steel, construction, distribution, motor vehicle and clothing Murray, the TUC general secre-tary, said the figures were "the price for the Government's dis-The other major sign of in-

dustry's caution is the further fall in notified vacancies, the successive monthly tenth decline. In the month to mid-April the seasonally adjusted figure dropped by 168,500. This is 351 per centb elow last June's peak and is the lowest figure since November 1977.

unemployment would have been even higher but for the Government's various job supportm easures which are now keeping 192,000 people off the unemployment register.

economists were expecting. The underlying level of output has been flat until recently and The scale of the current increase could mean that so A likely explanation is that ecent forecasts about the level of unemployment are too opticompanies bave been taking mistic. The Treasury has always anticipatory action in view of all the talk about recession and refused to publish its internal forecast but the working assumption in the recent public given the intense profits squeeze This point applies particularly to manufacturing where total spending White Paper was that the avearge figure in Great Britain would be 1.65m during the current 1980-81 financial

> year, rising to 1.8m in 1981-82. The unadjusted total rose by nearly 45,000 last month to 1.52m, the highest April figure since the war. Map, Page 8; Editorial Comment, Page 22

|\$2,2413,2470|\$2,2160-2180 |0,24-0,29prem|0,10-0,20prem |0,19-0.05 dis |0,22-0,27prem |1,85-0.95 dis |0,70-055 dis Société Générale

of the last year.

E in New York

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ESSE

A country sinks into internal disarray

WE ARE seeing the start of a said in Tehran on Monday as rival groups battled each other on the Tehran University campus. Yesterday the Left. having declared its resistance to an Islamic cultural revolupus, but it is hard to imagine that the two sides will not come to blows again another

As has now become almost incidents in Iran's turbulent revolution, Tehran itself returned to comparative normality after the student clashes had left at least three dead and hundreds injured. ments and the streets bustled with traffic, neither disturbed any longer by the scream of ambulances and the distant crack of rifle fire.

Even so, the rent-a-mob of Islamic fundamentalists responsible for most of the stone-throwing and knife attacks at the university quickly moved down the road for a demonstration outside the U.S. Embassy, where the 50 diplomats have now been held for a little less than six

Outside Tehran the reverberations of revolution remain all continued in Kurdistan, with Kurdish guerrillas besieging Irnaian army units in the city of Sanandaj.

Tension persists with neighbouring Iraq, even though the recent border skirmishes have not revived. And there are worries about the likely role of the Soviet Union, with its troops and armour in Afghanistan and over Iran's northern border. on the one hand. and its potential Western sanctions breaking capability on the other.

Remarkable as it may seem in the West, the events in

fying arithmetic they now new csutomers at a time when the world market is far from

Since the failure of his strategy to extricate the American hostages from the grip of the militants students at the U.S. Embassy, the position of the moderate President Abol Hassan Bani-Sadr has come to look almost impossible. In a speech at Tehran University vesterday at the end of the student troubles, he praised the Islamic cultural revolution and condemned the left, suggesting that he has virtually given in to the hardline clerics on the Revolutionary blockade.

Council

With this aparent victory by Most Soviet exports to Iran United States, the world's attendance have been shipped from Black tion is distracted and the Soviet the Islamic Republican Party. the President seems little more than a titular authority now. By the time a second round of parliamentary elections are over—they are due on May 9—the Islamic Republican party will probably have consolidated its position The left will regard such developments with trepidation, and the risk of civil war will seem all the more real.

Islamic Revolutionary Party are the twin key considera-tions why sanctions are now being promoted with renewed vigour - and why they are unlikely to succeed in the near future.

Led by the hardline IRP, elections, Iran's response to Middle East policy since the the U.S. led pressures will 1973-74 oil crisis. undoubtedly be a strong rally-

Embargo hits export recovery

embargo on Iran, but it may find it far harder to live with

The first trade measure to continuing. come into effect will be the halting of arms shipments. But countries had already found that Iran was no longer the seller's market which it had been in the days of the Shah's grandiose dreams of expanding his country's hegemony. The new regime concelled

contracts such as those for modified British Chieftain tanks. The last gunboats supplied by the French were delivered the end of 1978. Britain has not sold any arms or military equipment since the hostages were seized in November. It had already decided to delay issuing an export licence for a 20,000 ton fleet supply ship built by Swan Hunter.

The proposed trade embargo omes just as Western European businessmen were welcoming a slow but continuing recovery in the Iranian export market. In 1978, exports by members of the Organisation for Economic had been running at a monthly average of \$1.3bn. In the first

However, they have since of smaller enterprises which picked up; by the last three had managed to claim a stake in months of 1979 they were the Iranian market have the problems of enforcing that averaging about \$600m and this expressed anxiety. In Britain, year the recovery seemed to be

> But even such figures represent only about 0.6 per cent of total OECD exports. Further, a significant proportion of the exports consisted of food, and wil Ithus not be affected by the measures proposed by the EEC. No less than 28 per cent of French exports to Iran last year were of foodstuffs, in particular sugar, wheat and beef. This year the proportion has been

The exclusion of food is also significant for Iran, which depends on imports for one-fifth of its wheat consumption, onethird of its rice and sugar and four-fifths of its vegetable oil. according to recent estimates.

The reaction by businessmen has varied. In West Germany, Dr. Manfred Lennings, chairman of the Gutehaffnungshuette engineering group, said last week that his firm, which before the revolution had supplied \$250m worth of motors, steel and engineering products, said that the sanctions would have virtually no effect on the com-

But in Italy a large number sacrifices among the people who of smaller enterprises which impose them."

When the question was repeated, he again indicated that businessmen would receieve little reimbursement from the the country's largest single exporter to Iran. Talbot cars, is This fear is only one of those anxious. It exports kits of the Hillman Hunter for assembly in held by businessmen. In 1978 Iran. Last year its export sales

Financial Times reporters analyse the effects and the problems of the sanctions adopted by the EEC against Iran

exports from Comecon countries to Iran totalled less than onethenth of those from the OECD, but last year the proportion rose to about one-fifth.

There is obviously a limit to the extent to which Iranian firms can switch firms but none the less the fear of a market being lost weighs heavilyparticularly when there is some anxiety over whether other Middle Eastern countries might show solidarity with Iran by declaring a counterembargo.

Parallel with these fears are those of losing a number of major contracts. Since the revolution, numerous contracts for turn-key projects, power stations, ports and roads have been cancelled. But France was now hoping to win a \$2.3bn deal to build an underground system in Tehran as well as a \$150m contract for the delivery of four Airbuses in 1983.

Italy has just renegotiated a \$1.50n contract to construct a

Crossing Points Turkey 黑 赋: EXPORTS to IRAN

Japan has a \$3bn petrochemical complex which is 85 per cent complete at Bandar Khomeini firm Krupp, as this is subject to an arrest order. However, Western officials still argue that the sanctions In the circumstances the have to be properly prepared and applied. In the cases of West Germany and Britain, laws exist on the statute book economic costs of these sanc-tions seem bearable to Western governments. There is also little fear of Iran moving the estimated half of its \$15bn which could easily be activated reserves which is not subject to ban trade with Iran — the 1961 law governing external economic relations and, in

linch pins of sanctions against Rhodesia, and the Exchange However, British officials fear that it might be argued that Britain had fallen foul of the either of these laws. Hence

Afghanistan

Iran may have to rely on Eastern Bloc to beat trade sanctions

BY PATRICK COCKBURN

U.S. SANCTIONS against Iran and the threat of stronger action by the EEC countries and Japan is inevitably leading Tehran to look for alternative trading partners such as the Soviet Union, Eastern Europe, non-aligned states, and the U.S. allies whose support for President Jimmy Carter is likely to be mainly

The Iranian Government has suppliers, and then getting the goods to Iran. Even without full-scale EEC sanctions or a U.S. naval blockade, the threat of the latter is sufficient to dissuade many shipowners from

Bandar Khomeini or another face high insurance premiums. In February, 129 ships used the country's ports to unload 730,000 tonnes of imports. Half Khomeini. President Carter has yet

officially to cut off U.S. supplies of foodstuffs. A reduction in these imports would have the to bring in imports. biggest direct political impact Constraints also are already queues for some kinds of meat, eggs vegetable oil.

mutton, lamb and wheat now Iranian port they could get cut come from Australia and New off in the Gulf and in addition Zealand, which depends on Iran to take one-third of its The threat to the Gulf ports lamb exports. It is easy for is the most serious facing Iran. Australia to ban non-food exports to Iran. These were worth only \$14.5m (£6.5m) in these ships docked at Bandar but food exports over the same -period were worth \$68m. Shipowners' fears that they could be boxed into Iranian ports may sharply reduce Iran's capacity

totalled about £20m, but this

year sales had been forecast at

over seven times this. It would

have been the firm's best export

year ever to Iran-and would

have ensured continuing work

for 1,500 people in Stoke-on-

10 per cent of British exports to Iran in 1979. In total, road

vehicles were nearly one-quarter

of British exports to Iran.

Power generating equipment

was also an important item, as

Asked if the British Govern-

ment would compensate firms

sanctions, Mr. Douglas Hurd,

Minister of State at the Foreign Office, told the BBC programme The World This Weekend: "No

one is happy about sanctions.

They are very difficult to enforce. Certainly they will be

were electrical and machinery, chemicals

which were

The Talbot kits accounted for

Constraints also apply to on the peopl eof Iran. There India, which has been asked to supply consumer and engineer- not have what the Iranians ing goods on a priority basis. want, and it will be difficult for has some 2,500 trucks operating An official Indian delegation to the EEC to know if its exports from western Europe. This

Much of Iran's imports of Tehran recently was asked to to eastern Europe are going on company has another 5,000 Soviet Union, routed throughoutton, lamb and wheat now supply cement, sugar, textiles, to Iran. Given the eagerness trucks, and so their use could Astara and the railcrossing drugs, steel and tyres and tubes. Eggs, meat, onions and potatoes were also requested. Significantly, Iran also asked that Indian vessels carry the

> India is the major Third World country identified by Iran as a source of supplies, but Tehran's long-term security depends on the willingness of the Soviet Union and eastern Europe to replace western

Some of these countries do

of Eastern bloc countries to get long-term oil contracts, particularly if deals are done on a barter basis, they have every incentive to get goods to Iran.

to blocking orders, or of it dis-

posing of assets like its \$500m

Before the fall of the Shah some 60 per cent of the 100,000 TIR lorries traversing Turkey were bound for Iran. Crossing the border at Bazargan, these trucks were heavily used when Iranian ports were heavily con-gested in the boom years immediately after the 1973-74

oil price rises.

The largest company using this route is Bulgarian, and

be stepped up.
Other goods can be brought.

fees, and new visa requirements by Iraq has encouraged many if all the paperwork was done of the Turkish owner-drivers to later in Tehran. use their own ten-ton trucks on the route to Oran. The advan-tage of the Turkish sealand route, for countries not applying canctions, is that it would avoid the dangers and heavy insurance

If the wost comes to the worst the Iranians will also expect heavy supplies from the

Other goods can be brought is heavy congestion at Julfa, but in by sea to Turkey and moved this is the result of the need by truck across the border. A for full customs documentation recent agreement between the rather than any lack of facilities. two countries ended transit and more than the present 250 wagons a day could be handled

> The real difficulty for Iran in the long term is not lack of machinery or spare parts but shortages of bulk goods such as foodstuffs normally moved by ship. If they receive full Soviet and East European support this problem can almost certainly be surmenned.

Gulf obliged

to oppose

EEC move

Community's decision is likely to be deplored and

quietly, and for different

reasons, by every Muslim and

Arab country-from the Kara-koran Mountains to the

The Islamic Conference in

January condemned Soviet military intervention in Afghanistan manimously. But the price of such a strong

resolution was one expressing great concern at "the efforts of certain great powers to

exert various forms of pres-

sure on Islamim states," that

Religious sentiment apart,

it was felt that Islamic solidarity cannot be dis-associated from regional solidarity. Common security, it was thought, would be best

ensured by co-operation, non-alignment and keeping both

super-powers out of the

Turkey has already said

By Richard Johns-

their masters.

is Iran.

Energy agency to hold urgent talks on threatened oil supplies

BY RAY DAFTER, ENERGY-EDITOR

Agency's governing board will between member countries; • A similar pricing dispute meet in Paris today to hold France will be hardly affected between the National Iranian impact of growing disruption in 10 per cent of its oil from Iran. based groups, British Petroleum Iranian oil supplies. In West Germany's case, the and Royal Dutch/Shell, has led

diplomacy now going on in to Japan and Western Europe as a result of various measures however, Iran's influence on oil

BY DAVID SATTER IN MOSCOW

the final analysis, on its readi-

ness to challenge a U.S. naval

Sea ports through the Suez

The sea lanes would be all

the more important if the Soviet

Union was to decide to support

fere with Soviet shipments.

THE INTERNATIONAL Energy these exports varies greatly Japan. ism. Over the EEC as a whole,

gation of the crisis works to their advantage. While Iran is

locked in confrontation with the

Union is freer to deal with what

a deteriorating situation in

The Soviet Union has already

moved to unqualified support

for Iran in its confrontation with the U.S. This support has

into confusion. The basic year Iranian oil accounted for influences are:

year Iranian oil accounted for 6.2 per cent of supplies while confront in the economic influences are:

5.2 per cent of supplies while in the first quarter of 1980 i pect of trying to sell 40 per decision to impose trade sanc- it represented 5.5 per cent. cent of their oil supplies to tions against Iran is expected • The initial refusal of a dozen to provoke retaliatory measures Japanese trading companies to by the Iranian Government, pay the latest \$2.50 a barrel Last night it seemed likely that Iranian oil price rise has led to the world market is in the supplies of 520,000 tight and most purchasers last night it seemed likely that transan on piece is the supplies of 520,000 want a more dependable last night it seemed likely that transan on piece is to see the supplies of 520,000 countries. The importance of b/d contract crude exports to

Russians unlikely to risk

running a naval blockade

The Soviet Union wants to take the risk of running an

tions against Iran. But its The Soviets may move ability to do so may depend, in cautiously because the prolon-

Canal and into the Gulf. So even observers in Moscow believe is

help foil U.S. economic sanc- American blockade.

under existing conditions a U.S. a deteriorat blockade would seriously inter- Afghauistan.

urgent discussions about the while West Germany obtains Oil Company and two Europeanthe West, the events in Tehran and around the country have almost completely overshadowed the crisis in Iran's relations with the U.S. and the fevered bout crude oil from Iran. While most Western capitals.

As a result most Iranians are that have again put intersupplies has been dropping some is shipped to Japan under. The new turmoil in the world could lose im b/d for the whole and cumbersome mechanism, broadly unaware of the horribral configuration. The beside that have again put intersupplies has been dropping some is shipped to Japan under. The new turmoil in the world could lose im b/d for the whole and cumbersome mechanism, and cumbersome mechanism, into another period without kept in the background even in and the British National Oil mental questions about future undue problems.

Corporation. As a result of oil prices, the general level of Oil consumpti contracts and spot market deals supplies, the posture of the IEA countries in the first quarter of estimated that in recent months Japan has been relying on Iran and Iran's own future exporting this year was about 8.5 per cent their exports on spot and con-

CONTRACTS

Eastern Europe

TOTAL

Other Western Europe

if there is a big enough political

One important indication of

of work on an Iranian oil pipe-

Japan BP/Shell

of the country's total needs. Iran's ban on exports to until the U.S. hostages were released.

WHERE IRANIAN OIL HAS BEEN SOLD IN

RECENT MONTHS

food shortages, it may divert without a measure of confidance

meat and grain supplies to Iran about Iran's political reliability.

the direction in which Iran's territory if there is a blockade attitude to the Soviet Blos is but Soviet efforts to supply the

moving would be the beginning franians may be hampered by

270

DELIVERIES

Japan Western and

Rest of World

Eastern Europe

(including spot market sales)

The Soviet Union signalled

recently that it was prepared to

transit goods to Iran across its

the inadequacies of the overland

barrels/day

the EEC, is also having to get chosis" among other hawkish applied when supplies fall by by without Iranian crude, which oil producers that could lead to per cent. last year accounted for one fifth another round of big price rises. On supplies, high stock levels, of counts the IEA members

reduced oil demand generally a general feeling within oil comreleased.

panies yesterday that the world its emergency procedure, a big
The new turmoil in the world could lose 1m b/d for the whole and cumbersome mechanism,

Oil consumption in IEA

It is clear that on a number

their oil supplies with less fortunate countries. Japan has the best case; its Government may But it is thought unlikely that

the first major Iranian crisis.

Islamic solidarity should not On Iranian exports, it is be underestimated. None of Iran's neighbours love Kho-mein's regime. The govern-ment of Saudi Arabia, like Japan has been relying on Iran for up to 13 per cent of its oil policy.

requirements. Again, Japan may have ample justification for the oil industry, voiced by Royal have been down correspondis now faced with finding new triggering IEA's emergency triggering IEA's emergency severe disruption in Iranian theory, to trigger the IEA into a saturated spot market, supplies will cause a "psy-"safety net" which can be or cutting back production. the Baathists in Iraq, has particular cause to want an end to the clerical junta. The francian Revolutionary Council has called upon the people of both countries to overthrow

What Iran wants in return for releasing hostages

ages held in the embassy in teristic and opaque evasiveness Tehran since November have his position, from wnating the ebbed and flowed under the in-Shah returned to accepting fluence of U.S. polici estowards whatever Parliament decides. Iran and the uneven fluctua-

Shah (now convalescing in

THE CONDITIONS the U.S. dered, or some tried as CIA have been asked to fulfil to agents. And the Ayatollah has effect the release of the 50 host- broadly shifted with charac-

Parliament's second round of tions of Iranian politics.
At various times and in various combinations, the militant students, Ayatoliah Khomeini, and the leading clerics and politicians have demanded: the return of the be in favour of soft demands, Egypt); the unfreezing of his but would be unwilling to vote assets and those of his family; for them unless they knew first a damning and humiliating that Khomeini would agree, and The Revolutionary Council is split between soft-liners such as

Sadeq Qotbzadeh, the Foreign Minister, and hardliners such European action is major shift in policy on Mideast

Turkey has already said that it will have no part in sanctions. Joining forces with the EEC could seriously endanger Mr. Suleyman Demirel's Government by playing into the hands of the right wing, pro Iranian National Salvation Party. Pakistan is expected to condemn the EEC move explicitly and facilitate the flow of goods, including surplus rice, to what General Ziz ul-Haq describes as Zia ul-Haq describes as "brotherly, neighbourly There is justified apprehension that the frenzy likely to

result in Iran from concerted sanctions will spill over and threaten neighbouring regimes. Shrites are probably the majority in Iraq and already bolling with disaffec-As the riots in Quitt last

November and February showed, the House of Saud faces grave problems with the Shi ites in its eastern province. Government nerves in Bahrain, and to a lesser extent, Kuwait, are on edge for the same reason.

Above all, and almost too horrisc to contemplate, would be a hardening of atti-tudes in Washington and Tehran that could lead to a U.S. naval blockade. The Muslim countries perceive clearly, that this could trigger. an Iranian-Arah oil ember and a super-power conflict in the region.

Iran actively by importing become important enough that Iranian oil with he help of its the Soviet authorities have siglarge and fast-growing tanker nalled that they would back fleet and, for example, buying Iran in its conflict with Iraq, a line to the Soviet Union. Soviet route. pipeline building capacity is However, the Soviets have believed to be fully taken up so completed a big freight trans. account of past U.S. relations that the U.S. would accept them. with Iran, either by the U.S. The Revolutionary Council is itself or by an independent split between soft-liners such as The virtual abandonment by foodstuffs from Iran in third the West of President Banicountries, drawing on hard curcountry with which the Soviet the West of President BaniSadr and of the most outspoken advocate of freeing the hostages, Mr. Sadeq Qotbzadeh, the Foreign Minister, together with the present dominance of the Islamic Revolutioners. Parts body, such as the UN; and the President Bani-Sadr and Mr. work on an Iranian pipeline shipment at Astara on the would probably involve divert- Iranian border and are pressing ing resources from the domestic ahead in helping to electrify Lurking in the background pipeline construction pro the Dzhulfa to Tebriz railroad have always been the threats as Ay gramme. This could be done on the Iranian side. And that hostages might be mur-Beheshti.

BY DAVID HOUSEGO

Iranian public opinion is joining the U.S. yesterday in of broker between Iran and the likely to be mobilised during taking the first step towards U.S., attempts which other the next few weeks away diplomatic and economic successful from its present relatively tions against Iran, have emfort the Palestine Liberation months in attempting to find relaxed acceptance of the marked on a course that runs organisation to Dr. Kurt people in Iran with whom it status quo. In the coming counter to a major plank of their Waldheim, the United Nations

This has been to exploit succes

Secretary-General — have also undertaken, also with no

could negotiate and who cold deliver what they had promised.

To Khomeini's supporters, such an understanding is irrelevant, precisely because the humiliation of U.S. power is one of the focal points of the revolution enabling it to establish its stature in the Moslem world and among the

dence.

tite of the revolution.

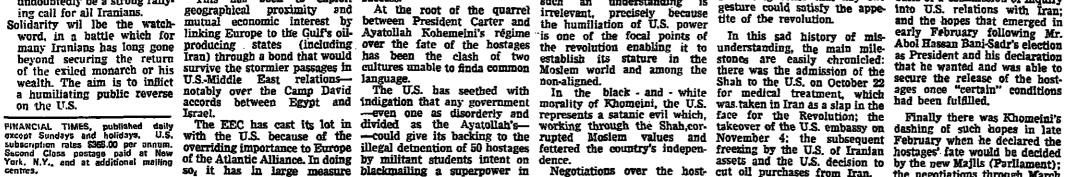
European Governments, by abdicated atempt to play the part pursuit of a vendetta against ages have been subsumed to Then there was the Security and April to get the hostages this uncompromising view of Council resolution on trade sanctransferred to the control of the It has spent more than five the U.S., enabling the Iranians tions in January to which Revolutionary Council; Presi-numiliating and exhausting to shift the basis of their Europe subscribed but which dent Carter's decision to sever demands from calling for the was vetoed by the Russians; the diplomatic relations with Iran deportation of the Shah to attempts to find a compromise and impose trade sanctions after stand trial, to a public apology in Jaffuary and February it emerged that the hostages for America's "wrongdoing" in through Dr. Waldheim and a would not be transferred; and Iran—without ever giving the five-man UN mission on the subsequent U.S. pressure on the convincing sense that any one basis of a commission of inquiry EEC to follow suit. gesture could satisfy the appe into U.S. relations with iran; and the hopes that emerged in In this sad history of mis-understanding, the main mile-stones are easily chronicled: there was the admission of the Shah to the U.S. on Cataban 200

non-aligned.

Shah to the U.S. on October 22
In the black - and - white for medical treatment, which morality of Khomeini, the U.S. was taken in Iran as a slap in the represents a satanic evil which. assets and the U.S. decision to by the new Majlis (Parliament); that a change of policy or of cut oil purchases from Iran. by the new Majlis (Parliament); that a change of policy or of the negotiations through March government is needed. Negotiations over the host- cut oil purchases from Iran.

The Europeans are going at least part of the way with President Carter in the hope of forestalling the military action against Iran which he has threatened more forcefully

In helping to tighten the squeeze on Iran, European governments hope they will be able to bring home to those Iranians outside the Ayatoliah's circle who are weary of Islamic rhetoric and economic disorder.



South Yemen President 'was forced to resign'

ader April 20 184

the weekend by other leading members of the ruling Yemeni Socialist Party, according to South Yemenis quoted in the daily As-Safir, here yesterday.
The news came amid signs that other changes in the Marxist regime in Aden may be

The State-controlled Aden News Agency reported that the resign at party's Central Committee, the decisions highest authority in South absence.
Yemen's political system, has "He wr been meeting under its new Secretary-General, Mr. All Nasser Mohammed, to discuss the status of the party, economic and political matters, and

Mr. Mohammed, who is the now on, Mr. Ismail will be officials accused of irregularities socialisation of the econo party chairman, and will devote while in office. The identity of advocated by Mr. Ismail.

ideological action.

THE FORMER president of all of his energies to ideological the officials was not disclosed. South Yemen. Abdul Fattah matters. Mr. Ismail was reported Ismail, was forced to resign at The official reason given for have warned that such activates the official reason given for t matters. Mr. Ismail was reported to
The official reason given for have warned that such action Mr. Ismail's resignation was ill- would set a precedent that health. The outgoing president is known to suffer from a chronic stomach ulcer, and had in the past received medical treatment in the Soviet Union.

As Sair quoted South Yemeni as saying that several members of the party's polit-bureau called on Mr. Ismail at his home and asked him to resign after he had rejected decisions taken by them in his " He wrote his resignation and

turned it over to them," the Yemeni's said, according to the newspaper. They added that while Mr. Ismail was in Tripoli attending the conference of the Arab "Confrontation Front,"

would only sharpen conflicts within the Government. After his resignation was obtained, the party's Central Committee was summoned to

an emergency session to vote on it, As-Safir said. The resignation was accepted by a narrow majority.

The next move is to appoint a new Prime Minister, so that

Mr. Mohammed can devote his

time to his two posts as President and leader of the ruling party. Arab diplomats said the new Head of State has more charisma than his predecessor. Mr. Mohammed, 41, is more accessible than Mr. Ismail, and Mr. Mohammed, who is the the Politbureau met in Aden is said to favour the rise of Prime Minister, also replaced and decided to take action home-grown national capitalism Mr. Ismail as President from against former Government instead of strict and total socialisation of the economy as

Protests disrupt Assam capital

THE ASSAM capital, Gahati, was severely disrupted yester- tion has been launched in day when students demanding response to a call by the All the deportation of all Assam Students Unions and "foreigners" from the state other bodies supporting the picketed government offices, seven-month-old action against banks and other public institu"foreigners" who are claimed banks and other public institutions. This latest action is to be taking jobs from native expected to continue for five Assamese. So far, all talks days after which the agitation have failed and earlier this s likely to be intensified. week the authorities arrested A curfew was ignored with hundreds of student leaders. is likely to be intensified.

impunity by thousands of The protest action was helped Assamese who marched on oil yesterday by the Assam High installations to start picketing Court which ordered that despite patrols of armed curfew passes should be issued soldiers and police. All oil production in Assam, which has rendered the curfew supplies a third of India's virtually useless and is needs, has now come to a halt. expected to encourage hundreds

The new phase of the agita- of thousands to join the agitation which has taken on the character of a mass civil dis-bedience movement such as has not been seen since the Indian independence movement.

Tension is increasing every day and yesterday a number of opposition leaders demanded that Mrs. Indira Gandhi, the Prime Minister, make another attempt to negotiate with the agitators. Mrs. Gandhi met Chief Ministers of all states in the region yesterday to discuss ways to improve their economic conditions but this is not expected to affect the move-

Rupert Cornwell assesses the impact of today's presidential elections

The end of an era for Greece

AN ERA of unnatural simplicity in Greek politics is drawing to a close. The 300 members of the Athens Parliament today are holding the first round of voting to choose a president. Whatever the outcome — whether Mr. Constantine Karamanlis, the Prime Minister, is elected, or whether failure in three rounds of voting to find a successor to Mr. Constantine Tsatsos leads to early general elections in June-things will be very different thereafter.

The complex process set in motion today heralds, in one form or another, the beginning of the end of Greece's "Kara-manlis age." Mr. Karamanlis has been either Prime Minister of his country or brooding in lofty exile in Paris, while first other politicians, and then soldiers, shared the spoils of power. Since his triumphant return in 1974, and the restoration of democracy after seven years of military dictatorship, he has until recently ruled virtually undisputed.

Not since the days of Mr.

Eleftherios. Venizelos earlier this century had any single figure been so dominant. Increasingly, however, things have been going wrong, and the delicacy of the calculations sur-rounding the presidential election is proof that the Prime Minister is no longer in absolute control of events. In fact, this election's importance is less who will occupy the potentially powerful presidency, than its influence on the timing and theme of the general elections, which must be held by November 1981, but which could take place in less than two months. For the first time since the fall of the Colonels, the result is not a foregone conclusion. Since 1979, the economy has been under increasing strain, with inflation topping 20 per cent. Mr. Karamanlis has become steadily more hemmed in on the domestically explosive topic of Greece's possiblt return to the

integrated structure of the

Atlantic alliance, and of rela-tions with Turkey, while even membership of the European Community, which arguably will be Mr. Karamanlis's most importan political legacy, seems laden with as many dangers as

opportunities.

Above all, though, he has fallen victim to that sonstant of Greek politics, dissatisfaction with any ruler, however succession ful. A desire for cange is ever



Mr. Constantine Karamanlis: the dominant figure.

more apparent, a desire nurtured by the Governments problems on other fronts. That change is unlikely to come from within the ruling New Democracy party. Should the 73-year-old Mr. Karamanlis become President, his succesor as party leader is generally expected to be Mr. Evangelos Averoff, the Defence Minister, who is only one year younger than Mr. Karamanlis.

Opinion polls in Greece must be treated with some caution, but there is no doubt that New

Almost certainly, the Panhellenic Socialist Movement (Pasok) of Mr. Andreas Papandreou would significantly improve its 1977 showing of 25 per cent, perhaps not to the extent of overtaking New Democracy as the largest party, but possibly enough to force New Democracy to ally with small right or centre parties. small right or centre parties.

The Karamanlis and Papan-dreou visions of Greece's future are very different. Possibly the differences will become blurred. given the volatility of the party structure, founded on personalities rather than ideas. But, to outward appearances at least, the divide is very steepbetween conservatism and a fairly fradical socialism.

zMr. Papandreou is on of the most speculated upon politicians in Europe. His oratorical skills, his radical ideas, and a certain scepticism over whether he means what he says, reminds one almost irresistibly of Mr. Tony Benn in Britain. The comparison is mis-leading, but similarities do

Mr. Papandreou is also part of an emerging "south Mediter-ranean left," tempted by nonalignment. It is no coincidence, for example, that he may soon visit Rome to see Sig. Enrico Berlinguer, the Italian Communist leader, and an advocate Whatever the substnce to his opponents' claims that he is basically Marxist, more to the point is Mr. Papandreou's insistence that Greece should leave the Atlantic alliance altogether.

A recent poll suggested that 58 per cent of Gireeks favoured a neutral Greece, and only 12 per cent wanted it back in the alliance's integrated military structure, from which Mr.

parliamentary majority because of the "reinforced proportionality" electorial system) would do less well today.

Almost certainly, the prefer Greece back in, and it is ones as well), has not improved easy to see how failure to break matters. The outlook is not all the deadlock over the alliance, bleak. For al lits imperfections and the dispute with Turkey and lack of investment, the over the Aegean, reinforces the Greek economy has shown reappeal of his rivals' call for a more independent foreign

markable vitality.
In this more difficult economic more independent foreign policy.

Thus far Mr. Papandreou has done the easy part for any politician — focusing grievances without being too precise on what changes he would introduce. A tougher line on multinationals and the promise of greater state intevention and social welfare is tailor-made for his natural constituency of an increasingly urbanised working in the social welfare is tailor-made for increasingly urbanised working in the social welfare is tailor-made for increasingly urbanised working that is not surprising that membership of the European Community, despite its likely advantages for Greek farmers and its over-riding political importance as a guarantee of the emocracy, is causing worry.

Theoretically, the adjustment laid down by the previous 1962 association agreement for the completion of the removal of the social welfare is tailor-made for any political importance as a guarantee of greater state intervention and social welfare is tailor-made for association agreement for the completion of the removal of the completion of the completion of the removal of the completion of the com tariff barriers will not be altered. But it is hard to see increasingly urbanised working class and the young. He has wooed the important farming community, and played on the understandable apprehensions of small business over the full markets, Greek companies will blast of European Community competition.

But fo rall the relevance of Mr. Papandreou's emphasis on social change to match economic transformation, it probably remains true in Greece, as elsewhere, that oppositions do not win elections, governments lose them. Nowhere is this more apparent than in the economy. Growth was 6 per cent in 1978, 3.9 per cent last year, and may not top 2 per cent this. The payments deficit widened to \$2.30n last year. In a year, the drachma has lost 14 per cent or more against major currencies, and inflation is around 24 per cent, fueled in part by a large total public sector deficit. In part, the

deterioration cannot be blamed on the Government. Greece depends on imported oil which, in 1980, will cost an estimated other manufactured goods, it is exceedingly vulnerable imported inflation.

These, however, are small considerations in immediate political terms. More to the point is the worsening international situation which could held to turn the tide in favour of a strong and proven leader like Mr. Karamanlis. This, like the economic prospects, is a \$2.5bn. As it also has to buy factor in the complicated calcu-abroad many consumer and lation of whether elections now

account

might prove better than elections in 1981. But already it seems clear that Mr. Karamanlis, But a lack of consistency in an immensely proud man, will economic policy, and the grownot be granted his wish that a ing and inevitable paralysis of grateful parliament and nation Democracy, which won 42 per Karamanlis withdrew after the decision making in the run-up will accord him a triumphant cent of the vote in the 1977 Cyprus invasion. Yet the Prime to the presidential elections first-ballot election to the general election (and a large Minister would apparently still (and perhaps parliamentary presidency.

how membership will not see

have to invest more and improve

the quality of their goods. None

the less the Government argues

that the first five years of Com-munity membership should pro-

duce a net gain from the Com-

munity budget of 500m units of

Perhaps more important is the hope of another, less tangible

benefit-that being part of the

Community and its machinery

will force the creation of a

bureaucracy and civil service which meets Greece's needs,

something the politicians thus

far have not achieved.

Marcos blocks new labour law

BY LEO GONZAGA IN MANILA



President Marcos:

Ferdinand Marcos. He took the action at the request of the business community just before labour practices he left on a visit to Hawaii.

might be used by unions to now due in mid-May, harass management. They made their feelings known when the Bill was before the National Assembly, and when it was enacted with only minor modi-

Citing "our past experience," the foreign businessmen claimed that charges of unfair labour practices were filed by workers against employers on "very

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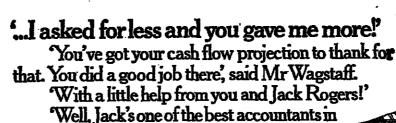
Plantage Middenlaan 62,

LEGISLATION TREATING un- minor issues." They foresaw fair labour practices in the situation where the abiilty of as criminal rather the executives of foreign corthan civil offences has suddenly porations to leave the country been frozen by President might be restricted because of "criminal charges"- pending against them alleging unfair

President Marcos said he The local confederation of would not act on the new law employers as well as the until after the Government, American, European and Japanese Chambers of Commerce are worried that the Bill other issues. This meeting is night be used by unions to now due in mid-May.

the meantime, Mr. Blas Ople, the Labour Miinster, has promised that the concerns of local and foreign businessmer will be taken into account in the formulation of the guide-lines. The Trade Union Council of the Philippines has also promised to exercise its rights under the law "responsibly and sparingly.

It was like Oliver Twist in reverse, Mr Wagstaff...



the business. You won't go far wrong with him on your side

But you suggested doing the cash flow in the first place, Mr Wagstaff. Don't be so modest!'

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Wagstaff reflected on the novelty of it all.

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Gulf oblig

O oppose

Hir tuyer is

Walker opposes farm concessions

Minister. Mr. Peter Walker. "Our position at the moment resume their talks this after countries with large dairy yesterday carefully dissociated is that we would not agree to noon, when the European farms (Italy, the Netherlands, himself from any property of the countries of th cut Britain's payments to the a price freeze on these three budget which would products." Mr. Walker said. "It's possibilities for a consensus on excess production, and the farm prices to be presented to products." Mr. Walker said. "It's possibilities for a consensus on on excess production, and the farm prices to be presented to the Community's agricultural the Luxembourg summit. The hudget to get savings elsewhere. But the possibility of such the did not the community's agricultural and agreement being reached at the constant of the community summit. The hudget to get savings elsewhere. French Government wants an except to product a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to product a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to product a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to product a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to product a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to the Luxembourg summit. The want their smaller farmers are producted as a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to the Luxembourg summit. The want their smaller farmers are producted as a paper summarising which would like a uniform tax on excess production, and the farm prices to be presented to the Luxembourg summit. The want their smaller farmers are producted as a paper summarising which would like a uniform tax on excess production. an agreement being reached at the EEC summit in Luzembourg cancelled out." at the weekend, or later in the

Kielland's loss

delays northern

drilling slightly

By Fay Gjester in Oslo

the Kielland accident."

Norks Hydro said it would

Parliament about the

on May 15.

BRITISH Agriculture cessions on farm price rises. because these savings would be outline agreement on farm tax.

prices as a precondition to However, he did not exclude concessions to Britain on its a change of attitude by the UK budgetary demands.

The Agriculture Ministers will dairy reforms between the five himself from any agreement to anything that did not include Commission is expected to pro-

On the question of prices, few Ministers have stated their This follows speculation that Government. "I have not ruled the British Government might out any possibilities," he said sensus today appear remote, be contemplating a package deal "There might even be another. however. Wide gaps have than the average 2.4 per cent emerged on the question of proposed by the Commission.

Gromyko faces chilly Paris visit

BY ROBERT MAUTHNER IN PARIS

expected

reiterate its call for a withdrawal of Soviet troops from drawal of Soviet troops from has become increasingly disAfghanistan during a two-day illusioned about the prospects
official visit by Mr. Andrei
Gromyko, the Soviet Foregin
Minister, to Paris, starting particularly stiff warning to the Soviet Union in the National to a Western capital since the December invasion of Afghanistan and he will have talks with President Giscard d'Estalng and French Foreign Minister.

Has become increasingly disillusioned about the prospects
of a Soviet change of heart.

M. Francois-Poncet issued a particularly stiff warning to the Soviet Union in the National to end the military intervention could destroy the whole edifice of East-West detente.

He rejected all Soviet ex-THE LOSS of the North Sea hotel platform Alexander Kielland is likely to delay only slightly the start of exploratory drilling in Norway's northern waters, originally due to begin Saga Petroleum, operator of one of the three northern blocks involved, has said it will

FRANCE is

French Foreign Minister.
Though the French have strongly condemned the Soviet postpone operations for about a fortnight. It has contracted Norsk Hydro and Statoil, operators of the other two intervention and have recently hardened their criticisms of Moscow, they have argued all alongt hat lines of communicalocks, about a revised start-up The company said the extra time was needed to allow the tion to the Kremlin must be kept open. Only through con-Government "to clarify the circumstances connected with tiqued contacts can Moscow be persuaded to reverse its policy, the French Government maindelay its rig's departure until

As the Soviet Union's closest in Europe.

Western partner, the French According to reports from organs, including every feel they have a better chance Moscow, the Foreign Minister is tals on their death.

of persuading Moscow to modify its policies. But Paris clearly has become increasingly dis-

of East-West detente. He rejected all Soviet explanations for the invasion of Afghanistan and said that France had "something to tell the Soviet Union."

The prospect of a cool recep-tion in Paris will not deter Mr. Gromyko from trying to drive a wedge between France and its Western allies, particularly the U.S. and West Germany, which is regarded by Moscow as Washington's "Trojan horse"

expected to go out of his way to sing the praises of detente and to separate the Afghanistan in which relations between the West and the Communist countries can be improved.

Appeal for

eye donors

A SERIOUS shortage of eye donors means blind people are denied the chance to see again, according to the European Society of Ophthalmology. The society is appealing for more donors. It wants people to carry a card donating their organs, including eyes, to bospi-

Swedes plan big rise in investment

By William Dullforce in Stockholm SWEDISH INDUSTRY is poised for a 20-30 per cent volume increase in capital

investments this year, according to the annual survey of company intentions b ythe Federation of Industries. But a shortage of skilled labour may deter some companies from fulfilling their plans.

from fulfilling their plans.

The suvery, covering 250 of Sweden's largest companies, points to a rise in output of about 4 per cent with demand from export markets continuing stronger than from the home market. Last year industrial production recovered sharply

convered sharply
Companies expect the value
of their deliveries to be up
12 per cent this year, but
prices will rise faster than in
1979 and volume growth will
be lower. Order books on
average were 20 per cent
larger at the beginning of
1980 a year earlier.

1980 a year earlier.
Capacity atilisation was around 90 per cent last year but the expected increase in capital investment did not

materialise.

A number postponed investments until this year, probably to awaait the result of Harch's national referenof March's national referen-dum on nuclear power which has approved the completion of 12 plants. However, executives of several com-panies quoted yesterday in the Stockholm technical journal, Dagens Industri, expressed concern about the labour shortage. The engineering industry needs to recruit almost 10,000 new workers, it is estimated.

Belgian bank suspends \$10m Chrysler suit

BANQUE BRUXELLES Lam in Brussels that the move would the U.S. banks.

bert is "suspending" its court give the bank time for redec. Of the 400 financial instituation in New York against from and that possibly a new from involved in lending conceptue \$10m (£4.5m).

The Belgian bank's decision. Since it became known that believed to fotal \$10m. The neithbory six suit a least for the suit at least for the receiver of the result of the six o

The news at the end of last to have been warned of the risk month that Banque Bruxelles of precipitating the cellapse of Lambert was taking legal steps Chrysler, which now has out to recover its loan t otherser, standing debts totalling about prompted a number of other fation.

foreign banks to threaten to Ontil now the Belgian bank out ort. The news at the end of last

Citicorp, the second blggest U.S. bank, is understood to have made it clear that it will not participate in the \$20n Chrysler rescue operation now Chrysler rescue operation now under discussion, if existing lenders are allowed to quit.

The Belgian bank has made it clear that the temporary suspension of its suit for proce-

The Belgian bank's decision. Since it became known man to withdraw its suit, at least for Banque. Bruxelles Lambert, the time being, is expected to Belgium's No. 2 banking group give. Chryster a much needed was suing for repayments, it breathing space in its attempt is believed to have come under to secure fresh financial sup increasing U.S. pressure to drop port.

has insisted that although Chrysler was still paying interest on the \$10m loan, it is over a year since warning was given that the loan could

was given that the toan count-not be renewed when it matured. Isst January.

The Belgian hank is known to be concerned that in the event of Chrysler's failure, the non-U.S. lenders might fare less

sortia for Chrysler, about 50 are foreign and their loans are believed to total \$100. The point is also emphasised in Brussels that Banque Bruxelles Lambert was not the first bank to demand repayment by Chrysler. It followed the First Security Bank of Utah.

Whether or not Banque Bruxelles Lambert's decision to halt its court action will aid the present attempts to restruc-

the present attempts to restruc-ture Chrysler's debt is unclear. The U.S. Government Chrysler Loan Guarantee Board's decision on the new rescue plan, which would involve the bank's which would involve the bank's contributions of \$650m in interest rates concessions on existing loans, is not expected for several days.

Meanwhile, Chrysler announced that it will run into a serious cash crists within the next fortnight if Government aid is not fortnessing.

dural and technical reasons, well in terms of recovering a is not forthcoming although it was being conceded proportion of their debt than Dislocation in Detroit—Page 22

Jamaica 'has secured \$270m'

BY HUGH O'SHAUGHINESSY, LATHN AMERICA CORRESPONDENT

broke off negotiations with the International Monetary Fund last month over the Fund's terms for new loans, claims to have secured more than half the money needed to meet its present cash crisis.

Of the U.S.\$430m needed in the short term, some U.S.\$270m is already being secured, though officials admit that the balance still has to be found.

The \$270m is made up of the rescheduling of \$65m of out-standing debt, a facility of be-tween \$90m and \$95m in oil purchase facilities from Mexico and Venezuela, \$50m from a group of donor countries, and \$60m in loans from Libya and Iraq, of \$50m and \$10m respec-tively.

The Government hopes that part of the gap will be covered by increased tourist receipts and the system of imports under which goods are hought with funds held for importers outside the country.

A Jamaican team is at present in Libya finalising the muchdelayed loan from Libya. Mr



Mr. Percival Patterson, Jamaica's Foreign Minister

furt this week to sign the final documents for a DM20m loan from the Bonn Government. The British Government has

Government of Mr Michael Mauley in Jamaica Mr Patter son saw Mr Nicholas Ridley, the Foreign and Commonwealth Office Minister with responsibility for the Caribbean, earlier this month, for a meeting in London which appears to have been somewhat frigid.

The Manley Government is hoping to get a meeting in just over a month of those countries

over a month of those countries who have contributed to the World Bank's multilateral scheme for the Caribbean.

These include Canada, the U.S. West Germany, the Netherlands and Norway. It is from these that the Jamaicans hope to raise \$60m. Oil finance from Mexico and Venezuela is expected shortly, from the latter perhaps by the end of this month.

In London yesterday, Mr Tom Adam, Prime Minister of Bar-bados, called for a "new look" and the Fund. While expressing reservations about the Fund's practise in imposing conditions on borrowers in the Third World, he wondered whether P. J. Patterson, Jamaica's so far been sceptical about the Jamaica had fully thought out Foreign Minister, goes to Frank non-IMF policies adopted by the alternatives to the IMF.

Canada 'heads for 10% inflation' BY OUR TORONTO CORRESPONDENT THE CANADIAN Federal budget—contained many ele-mooted by the Conservatives, Budget is heading for a ments introduced by the de-will be backdated to January 1.

feated Prozi

2514.2bm (£5.4bm) deficit in the current fiscal year, Mr. Allan tive Government last December. corporate incomes.

The Minister told the House of Commons that the deficit would rise by C\$2.7m compared also forecast that the Canadian economy will experience real growth of only 0.5 per cent and that unexiployment will increase to 8 per cent from 7.4 beer, about 13.5 cents on wine, per cent at present.

and 11 cents on liquor for stan-

Inflation would climb to 10

MacEachen, Finance Minister, but did not include a provision said yesterday when raising to allow deduction of home-taxes on tobacco, liquor, and owner mortgage interest against This move would only ald the "limited" number of people who actually face the loss of

their homes because of high interest rates, Mr. MacEachen declared. Canadians will now pay about

1 cent more on a 12 oz bottle of dard bottle quantities. The price per cent from 9 per cent last of a packet of 20 cigarettes will year, the Minister added. The rise by 2.5 cents.

Liberal Government would not be re-introducing the controversial 18 cents a gallon excise tax on transport fuels—one of the principal reasons for the Government. As a result it will have C\$2.5bn less in revenue than projected by the Conserva-

Mr. John Crosbie, the former Conservative Finance Minister, said that by re-introducing an emasculated version of his Budget, the Liberal Govern-ment had committed a "disastrous error" which would shake the confidence of the financial community and Canadians trybudgetary statement — Mr. A two-year 5 per cent sur- ing to come to terms wi MacEachen refused to call it a. tax on corporate taxes first present economic crisis. ing to come to terms with the

Breach in Nicaragua Junta

By William Chislett in Mexico City

THE FIRST serious breach in the five-man Nicaragua Junta, installed after the Sandinista guerrillas over-threw President Anastasio Somoza's dictatorship last July, occurred when Sr. Alfonso Robelo, the private sector's representative, re-

Sr. Robelo gave no reason for his resignation, but it is known that he had been un-happy for some time about the leftward direction the country is taking.

His resignation fellows that of Sra. Violeta Chamorro last weekend, apparently for

Sr. Robelo, a wealthy manufacturer of edible-oil who headed the moderate opposi-tion to Gen. Someza, had clashed with the Sandinistas about the need to maintain a private sector and create a Western style democracy. Last mouth, he launched

the Nicaraguan Democratic Movement which called for municipal elections next year and geenral elections in 1984. His party has been attacked on the Sandinista-controlled state radio.

Behind Sr. Robelo's resignation is a growing concern by the country's private sec-tor that the Sandinistas, many of them Marxists, intend to consolidate their position and edge the country towards

Mexico nuclear decision likely by end of year

BY WILLIAM CHISLETT

electricity. Canada, France and Sweden

are completing feasibility studies on different nuclear systems which may well be presented to President Jose Portillo when he visits those

light water systems. Mr. Stanan Burenstam, Swedish Trade Minister, told the Mexican President this week that his country's study would be ready by the time Sr. Pertillo visits

also rich in uranium

THE MEXICAN Government is all and gas, 5.3 per cent by expected to decide by the end coal, 6.9 per cent by hydro-of the year on developing a electricity, with 0.3 per cent nuclear industry for producing coming from - geothermal

> Mexico's powered plant, Laguna Verde in the State of Veracruz, should be completed by 1982 when the first of two 654 MW reactors will come on stream. The second reactor is scheduled for 1983

Canada is preparing a study on the Candu heavy water reserves of 8,328 tonnes and system, France and Sweden on geologists believe that potential light water systems. Mr. Staffan reserves could be as high as 225,000 tonnes.

The country's energy officials believe that one-third of Mexico's primary energy requirements could be supplied Stockholm.

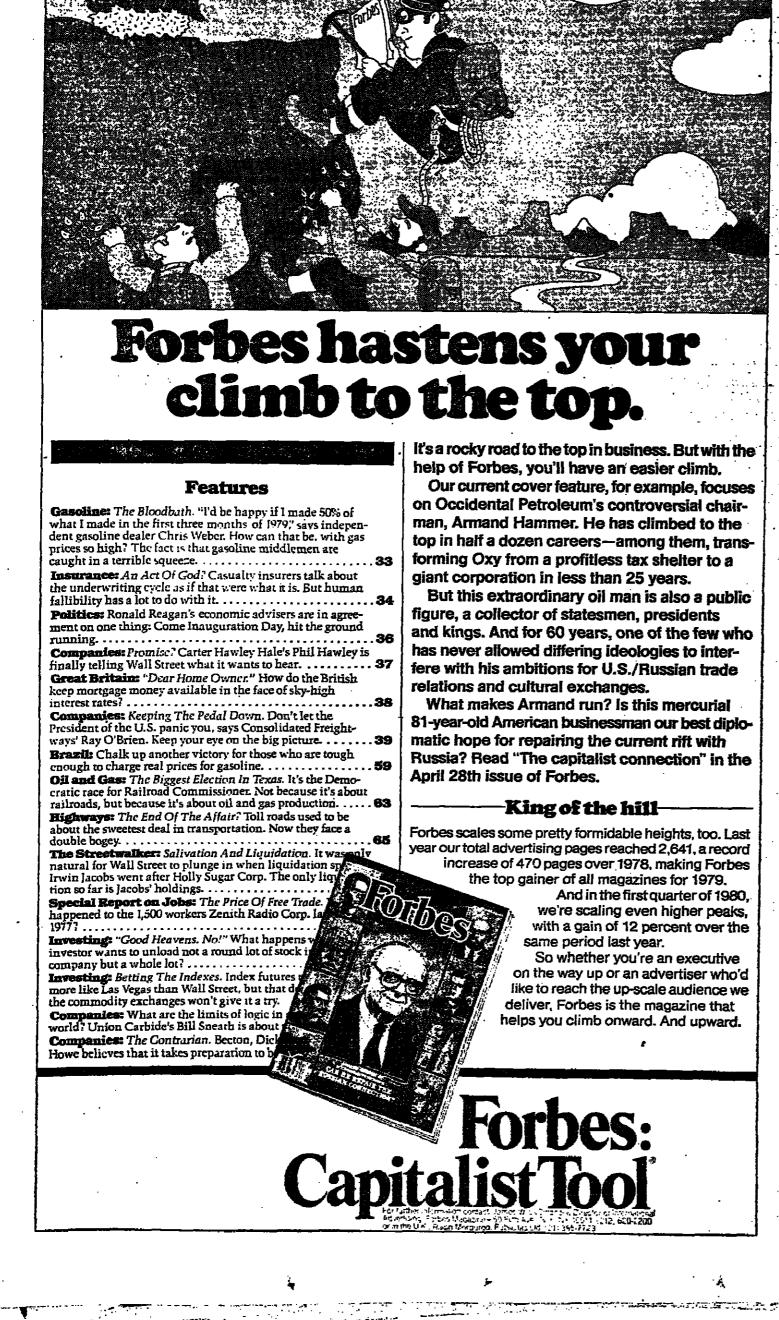
Mexico has the world's sixth
biggest proven hydrocarbon
reserves, but wishes to diver
sify energy sources. Mexico is
also rish in uranium also rich in grantum system to use. The advantage Some 87.5 per cent of of the Candu system is that it mentions primary energy uses raw, not enriched requirements are supplied by grantum.

Honduras chooses Liberals

TEGUCIGALPA - Hondures been instructed by the ruling has elected its centrist Liberal military junts to draw up plans Party to lead the country-back for a transition to democracy to Parliamentary demotracy and arrange Presidential elecafter eight years of military tions.

the Assembly.

With most of the votes in None of the country's left-Sunday's election counted, the wing parties was allowed to Liberals had an 8 per cent fead contest the election. The third over the Right-wing National participating party, the centre-party and were expected to left Retorm and Unity Party, held a 52 per cent majority in for about 4 per cent of the hold a 52 per cent majority in 100 about 4 per cent of the The 71-seat Assembly has Reuter



AT LAST, A PERFORMANCE CAR THAT'S AS SAFEAS A VOLVO.

JRT 3/2V

The new Volvo 244 GLT is everything you'd expect from Volvo.

It's built around a strong steel cage with crumple zones at the front and rear.

(Capable of soaking up a 50 mph collision.)

Those familiar shock-absorbing bumpers are still very visible.

While we haven't skimped on the things you can't see, either.

The doors are still inlaid with steel bars to protect you from side swipes.

The zinc coating we use is still about 4 times thicker than that used by many other car makers. (Which means 4 times more protection from rust.)

New engine

But if some things are familiar, some are different.

The 244 GLT has a top speed of 112 mph. It moves from 0-60 mph in just 9.5 seconds.

(Faster than the BMW 525 or Alfa Romeo

Alfetta 2000L.)

The new 2.3 engine is remarkably economical and a four-speed gearbox with overdrive makes it ideal for motorway driving.

(The GLT was originally designed for police work and is currently in the custody of several forces.)

As you'd expect, the handling more than keeps pace with the performance.

Gas shock absorbers, aluminium wheels, low

profile tyres, a front spoiler and power-assisted steering give you control at all times.

While stopping is equally predictable. (Thanks to ventilated disc brakes on the front wheels and standard discs on the rear.)

Inside, you'll want for very little.

The standard specifications include a heated driver's seat, sun-roof, rev-counter, and cloth upholstery.

Not to mention 2 door mirrors you can adjust from inside the car.

See it now.

The new Volvo 244 GLT is at your Volvo showroom now.

Although not a limited edition, we plan to import only a few hundred each year.

So if you'd like one, we suggest an early visit. A car like this is bound to go fast.

THE NEW VOLVO 244 GLT.

THE GIT COSTS 28696 (DEL LVERY & NUMBER PLATES EXTRA) PRICE CORRECT AT TIME OF GOING TO PRESS. FUEL CONSUMPTION FIGURES ARE -16.3MPG (17.3 LITRES PER 100KM) URBAN CYCLE 372MPG (26 LITRES PER 100KM) AT 56MPH AND 274MPG (10.3 LITRES PER 100KM)

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R-R loses order for Boeing 757 engines

By Michael Donne.

ROLLS - ROYCE has lost its coveted position as the sole engine supplier to the new Boeing 757 short-range jet

Aloha Airlines of Hawaii announced yesterday that it is to buy three of the these twinthrust, instead of the Rolls-Royce Dash 535 version of the RB-211 engines of 37.400 lbs thrust ordered by British Air. ways and Eastern Airlines

The Aloha deal brings to 48 the number of 757s firmly ordered. In addition to 19 for British Airways and 23 for Eastern there are three on order by Transbrasil of Brazil. all of which specify the RB-211-535 engines. In addition there are options on 45 more 757s, all with Rolls

Rolls-Royce is not surprised by the Aloha decision. The UK engine company has always recognised that sooner or later some airlines would decide in favour of U.S. engines instead

But the Aloha choice is likely to stimulate a number of other airlines to choose U.S. engines for the 757, and it is now clear that Rolls-Royce has a major competitive battle

This makes it all the more vital for Rolls-Royce to ensure that it can deliver its Dash 535 ngines on time, on cost and up to specification.

The reasons for Aloha's choice of engine have not been dis-closed officially, but are believed to include the fact that General Electric, as a U.S.-based company, is closer than Rolls-Royce in the UK for such things as overhauls and the supply of spares.
Several other U.S. airlines are

known to be considering the 757 with U.S. engines, including such big operators as United, American, Continental and Delta, and further orders are expected to be announced

Rami G. Khouri writes from state-owned Jordanian airline Alia is putting the final touches to a \$398m financing package to pay for six new wide-bodied

jets. The U.S. Export-Import Bank has approved a \$276m loan to cover 85 per cent of the \$325m cost of the U.S. component of the aircraft Alia is buying — five Lockheed Tristars and one Boeing 747. The British component of the August.

524B engines to power the about 40 MW at Burri

MAN to start U.S. bus assembly

MAN (Maschinenfabrik Augs about DM 100m (\$54m). burg-Nürnberg), one of West Herr Wilfried Locht

with White Motor of the U.S. for the manufacture of diesel trucks, MAN has finally decided clear limits. to go it alone with local manufacture in the U.S.

Its first venture will be to engined aircraft, but will use been offered by a major new the U.S. General Electric order it has received from the been offered by a major new trucks. CF6-32 engines of 36,500 lbs city of Seattle for the delivery and is expected to be worth to gain a foothold in the U.S. order of 150 for Seattle,

Following the break-down make "a very careful start" last year of its proposed merger with manufacture in the U.S.' diesel engine trucks. with the intention of keeping

Although MAN is starting with the assembly of buses, it is still studying closely opporset up a plant for the assembly tupities for following this later of buses. This opening has with local manufacture of diesel

It is establishing a new U.S.

market for Class six trucks-Herr Wilfried Lochte, the vehicles between 9 and 12 tend its manufacturing interests MAN Board member respons- tonnes. More than 50 per cent Germany's leading truck and MAN Board member respons- tonnes. More than 50 per cent in turkey with the construction bus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and bus of the trucks in this weight of a diesel engine plant to combus makers, is to set up its first ible for the truck and the truck and the truck are the truck and the truck are the truck and the truck are the manufacturing plant in the division, said yesterday that range are still petrol driven and the company had decided to MAN sees a big market oppor-MAN sees a big market opportunity for its wide range of

> the initial investment within "We begin alone. We are con- weeks, centrating on this more modest approach

subsidiary, the MAN Truck and success in the U.S. bus market their own truck and bus indusof 230 articulated buses. The Bus Manufacturing Corporation, and has delivered more than tries. It is still negotiating a definitive contract will be with probable headquarters in 400 buses to 11 different cities; further order of 200 double signed in the next few weeks

Detroit, and is particularly keen among them was a previous decker buses with the city of

MAN is also planning to exin Turkey with the construction bus assembly plant.

It has a 33 per cent share in the assembly plant and a similar The company was mantaining share could be expected in the "flexible" strategy, said Herr engine plant, which is likely to Lochte and future U.S. ecqui involve an investment of some sitions could not be ruled out. DM 50m. A decision to go shead Nothing was under considera- on this second plant in Turkey tion at the moment, however, is expected in the next few

In addition MAN is acting as an adviser to both Iraq and MAN has already had osme Algeria on the building up of

U.S. to toughen stand in Tokyo car talks

BY DAVID BUCHAN IN WASHINGTON

in negotiations that resume in Tokyo today over allowing more foreign car imports into the Japanese market, a top White House trade official has warned. Mr. Robert Hormats, the deputy trade representative, told a Senate subcommittee this week that the Carter Adminis-tration was 'very disappointed' with lack of progress so far. The Japanese, he said, had proved partially accommodating on the

This taxes larger cars with engines of more than 2,000 cc at a higher rate (20 per cent) per cent), and is thus argued by the U.S. to discriminate against the typically bigger American

Hormats' testimony before the Senate subcommittee. which was investigating the present plight of car dealers, represented a hardening of the which keep foreign cars out of administration's line in the pro- Nissan would follow suit.

Is likely to their market, but were "totally longed talks with Japan. The But so far Toyota is only destined for resistant" to dropping the trade official also expressed commissioning a study on a new Hormats said.

THE U.S. intends to get differential on their car sales scepticism about the degree of U.S. plant, while Nissan last extremely tough " with Japan tax. investment in the U.S. that week proposed a \$300m light intend to make In contrast to President

Carter last week, who was publicly bullish about new Japanese facilities in this country. Mr. Hormats said: "We have some movement but much more is needed." He praised Honda for its firm decision to set up a \$200m car manufacturing plant in Ohio and hoped that Toyota and

week proposed a \$300m light truck plant. It is car imports, not trucks, that are displacing American products and workers, he pointed out

"It is puzzling to hear from large Japanese auto concerns that they are unwilling to invest in the U.S. because of the increased competitiveness of U.S. companies when these same Japanese producers are adding capacity in Japan, some of which is likely to produce cars destined for the U.S.," Mr.

Britain confirms £61m grant for Sudan

BRITAIN confirmed yesterday power station at Khartoum to contribute about £60m to that it is to make a grant of up to £61m to a power generating project in Sudan. The grant, which presents major opportunities to the British electrical generating industry, is the second biggest aid grant Britain has ever made.

The UK will be the biggest contributor to a \$276m (£123.6m) World Bank project called Power 3 which is designed to increase Sudan's generating capacit yby 184MW

The Overseas Development Administration believes lack of electricity in the capital, Khartoum, is the country's most critical need. Power shortages
and cuts have crippled industry, MASSEY-FERGUSON hampered the growth of irrigated schemes, and, in the into street disturbances last supplied from the UK.

tied to British companies. The rest of the project consists of on the Blue Nile by 84 MW, to be financed by the World Bank, and the installation of a new 150-mile transmission line from the Sennar hydro-electric station to Khartoum, to be paid for by Power Enginering. The consult-West Germany, which is tocon-ant for this station is a West tribute about £25m Sudan is German concern, Lahmeyer.

North, both of which will be cover the local costs. Sir British companies and consortia have already prequali-Neill International, Babcock Turnkey Operations, Balfour Beatty, and Hawker Siddeley

Ewbank and Partners of Brighton is the consultant for the Khartoum North Station. The contract for Burri is exincreasing the capacity of the fied to tender for the Burri pected to be awarded next Janu-Roseires hydro-electric station diesel, station. They are: Hum- ary for completion in late 1982, phreys and Glasgow, Taylor and the contract for Khartoum Woodrow International, Capper North next February or March for completion in mid-1983.

Sudan is Britain's largest non-Commonwealth recipient of aid in Africa, after Kenya, Some £15m was disbursed there last

Zimbabwe buys MF tractors

received an initial order for Mechanisation as sole distributractors for Zimbabwe worth tors in Zimbabwe. heat of the summer, caused poli-tical discontent, which flared \$1.7m. Most of the units will be the return of normal trading businessmen about opportunities

near ending of economic sanctions the government will place a high The Khartoum and a 60 MW steam last year, Massey-Ferguson re- priority

You're welcome

SHARJAH

conditions, it anticipates an The order was placed by Farm increasing demand for farm London Export (purchases amounts to \$73m Under Power 3, Britain will Mechanisation, part of the machinery from commercial July 17 and 18 a for the Rolls Royce RB211 finance a diesel power station of Barlow Rand grou. With the farms and in expectation that Hilton Hotel, in as

has newed its appointment of Farm mechanisation of peasant farm-

 A conference for British and in Zimbabwe will be held by London Export Conference on July 17 and 18 at the London Air Zimbabwe and British

Oil tanker register promoted

By William Hall, Shipping Correspondent

A GROU called the Oil Com-panies International Marine Forum (OCIMF) is promoting the establishment of an international tanker register, which would provide information about the world's tanker

established by the middle of next year and it is being seen as a major attempt to outlaw the growing number of substandard ships. The OCIMF represents all the

Such a register could be

world's major oil companies and represents those bodies responsible for 80 per cent of all oil transported by sea. Initially, the OCIMF favoured

a system of rating international tanker operators on the order of a good food guide, but this foundered because of probable American legal difficulties.

Under the new scheme, which has still to receive approval, a voluntary system to collect and disseminate information con-cerning tankers, operators, crews, ports and terminals will be established.

There are some 3,300 tankers of more than 10,000 dwt on the high seas. Just under a third are operated by large oil companies, but in recent years there has been a rapid growth in smaller, unskilled operators. The OCIMF estimates that between 5 and 10 per cent of the world's tanker fleet is "sub-standard" and that the percentace is going up.

The information to be con sidered for entry in the register is under review by five com-mittees. Aside from OCIMF's members, ship classification secieties, charterers, and others are represented on these com-

While the more responsible shipowners support the scheme there remains a certain amount of resistance from some smaller tanker operators that are worried about whether they will be fairly represented. In addition, OCIMF still has to sort out the financing arrangements for any register.

NEW GLEESON SUBSIDIARY

M. J. Gleeson (Contractors) has formed a new subsidiary called Gleeson (London). It will

foreign joint ventures approved

By Tony Walker in Peking

CHINA'S Foreign Investment Commission has announced first approvals for joint ventures involving Chinese and foreign partners.

In what a Western lawyer based in Peking last night as a "most described development, authorities have agreed to two hotel projects and an airline catering

According to the New China News Agency, the hotel contracts have been signed with U.S. and Hong Kong-based companies. The catering deal also involves a Hong Kong-based company. China International Travel Service is the Chinese partner in the two hotel projects.

One of the hotels is to be built by Zhong Mei Hotel Development of Hong Kong-It will be known as the Jianguo Hotel and will be built in Peking's castero suburbs. The participants in the joint venture are planning an botel with more than rooms and luxury facilities.

The other hotel, to be built by the U.S. company, E-S Pacific Development and Construction, will have 1,000 rooms. Both hotels are expected to be open by 1983. The third contract, between China's national airline, CAAC and China Air Catering of Hong Kong provides for a May starting date.

The announcement Foreign Investment Commission ratification for the joint ventures has caused a flurry among Western businessmen in Peking. The approvals are regarded as an indication that China is about to give the go-ahead for a number of joint ventures which have been with the commission for some time.

It now seems likely the first batch of joint ventures will get under way without an announcement of regulations governing tax and wage

The Chinese have been promising to publish such regulations since late last year, but for some reason have not yet promulgated

Among the joint ventures awaiting final FIC approval is the one involving Schindler, the Swiss lift manufacturer. .Approval for that project is expected to be announced in the next batch of joint

venture agreements.

China's first W. German direct investment in **U.S.** soars by 43%

BY ROGER BOYES IN BONN

GERMAN concerns. WEST faced with problems ranging from high labour costs to market saturation, radically stepped up their overseas direct investment last year, especially in the U.S.

Economics Ministry figures show that West German companies increased their direct investment in the U.S. by DM 3.69bn (£893m), a rise of 43 per cent over 1978. Overall private direct investment abroad increased by DM 7.8bn, a 13:4 per cent jump over 1978. At the same time, foreign

investment in West Germany rose by only DM 1.9bn, an increase of only 3.6 per cent with DM 257m. The U.S. invested only DM 216m in West Germany last year but remains the U.S. by far the largest overall private investor. American companies have put some DM 20bn into the

as West Germany's high over-

panies were worried last year about the weakness of the dollar against the Deutsche Mark and against the Deutsche Mark and feared that this would lead to West German exports being priced out of the U.S. market Hence there was a strong move to occulre subsidiaries in the U.S. to set up direct production facilities and, thus, secure or expand the West German market share of the North

American market. Another strong factor has been the high production and labour costs in some industries, especially the chemicals sector. Since 1952, the West German chemical industry has invested DM 10.4bn abroad, a large over 1978. The higgest investor portion of this in the U.S. in West Germany in 1979 was This long-standing trend is Britain whose companies clearly confinning, boosted ploughed DM 368m into the particularly by the high profits country. Dutch companies fol attained by the chemical groups. In the last quarter of 1979, with DM 358m and Swiss In the last quarter of 1979, with DM 258m. The U.S. attained by the chemical groups. In the last quarter of 1979 Bayer, BASE and Hoechst all announce dplans for growth in

The electronics industry has been, after the chemicals sector, the most enthusiastic country since 1961, compared investor overseas and a number of subsidiaries. have been acquired partly to acquire know-how in new fields "such figures—and a statistical such as micro-electronics" and partly figures—and a statistical as micro-electronics" and partly analysis published yesterday by to secure market presence. the Bundesbank—suggests that Thus in the last quarter of several trends are at work as far 1979, Siemens announced three separate U.S. acquistions and a eas investment is concerned. Fourth through a joint venture. In the first place many com-already established in the U.S.

Egypt and Israel sign trade regulating accord

CAIRO-Egypt and Israel have Our Amman Correspondent lating direct trade between to be signed since Egypt and

Israel began to normalise areas of Jordan. relations under their peace. The package treaty earlier this year. civil aviation and tourism.

The trade agreement has to before direct trade becomes

possible.
Mr. Yoram Ziv, director-

initialled and agreement regu- adds: A consortium of eight Arab and European banks have them, Mr. Michael Herzberg, the signed a protocol here with the legal adviser to the Israeli French and Jordanian Govern-Trade Ministry, said yesterday. ments to lend FFr 290m (£30m) The agreement was the fourth to finance a telecommunications expansion scheme in the rural The package includes

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reaty earlier this year. FFr 217m commercial loan The other three agreements Government. The loan is for 10 covered cultural co-operation, years at 7.5 per cent interest, with an additional | per cent loan insurance charge

be ratified by the Israeli. The syndicate of eight banks Knesset and the Egyptian that put up the money is led People's Assembly (Parliament) by Banque Française di Commerce Exterieure, and includes Banque de l'Indochine et de Suez, Banque de Paris et de general at the Israeli Trade Pays Bas, Banque Nationale de Ministry, led the delegation Paris Societé Generale, Union which negotiated the agree de Banques Arabes et Fran-ment. Saudi Banque, and Arab Bank.

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Rebate for Now! advertisers

By Michael Thompson-Noel

NOW! MAGAZINE, Sir James Goldsmith's first venture into UK publishing, failed to meet initial circulation targets and is to pay rebates of 27 per cent

The magazine's advertising rate card guarantees average weekly net sales over the first 26 issues of 250,000 copies. In the event, the average was 182,011, according to figures examined by Price Waterhouse and Co., the magazine's

Mr. Derek Rogers, marketing director of Sir James's Caven-ham Communications, has told advertising agencies the audited figure felt "some way short of target," but says it represents "an encouraging level of sales when you consider that one year ago, the market for a news magazine in the UK was thought to be non-existent."

He adds: "Now the debate must be how big the market is and how soon it wil be before other titles enter and by so doing enlarge and develop that

Cavenham's circulation target for Now! engendered scepticism in the advertising world, which predicts a struggle for

The next sales figures to be published will be those certified by the Audit Bureau of Circulation, covering a slightly different sales period. They are due early next month.

Failure to complete metric changeover economic 'millstone'

BY DAYID CHURCHILL, CONSUMER WITAIRS CORRESPONDENT

measures at school only to have t adapt later to an economy

TALBOT'S NEW Solara saloon

the 1.3 litre to £6,370 for

top-of-the-range 1.6 auto-

The seven-model range, based

on the award-winning Talbot Alpine Hatchback, goes on sale in the UK from May 13. Prices will be: LS 13, £4,086; LS 1.6, £4,265; GL 1.6, £4,751; SX 1.6

Available later in the summer

will be: the GLS 1.6, £5,481; GLS 1.6 five-speed, £5,641; and

the GLS 1.6 Auto, £5,881.

that is partly imperial.

New Talbot

car prices

Auto, £6,370-

THE GOVERNMENT'S failure tion in retailing. "The retail to complete the metrication pro- trade is highly competitive and gramme in the UK was strongly it is argued that, unless everyattacked yesterday by Mr. Max one changed together, those Wood, chairman of the Metrica- who stayed imperial would gain Wood, chairman of the Metrica-tion Board. The Board is to be tion Board. The Board is to be an unfair commercial advant-closed down at the end of the month after 11 years of operaHe pointed to the anomaly of

Mr. Wood said the Board was concerned "that the remaining metric advances will be piecemeal and that our economy will continue overlong with the costly, inefficient and largely unnecessary millstone of dual working in metric and imperial

The Government announced late last year that there would be no more Parliamentary Orders forcing the adoption of metric standards, supported further voluntary metrication.

Mr. Wood pointed out yester-day the problems industry, retailers, and education will face until the metric programme is completed.

"Industry claims that until metric production is the norm for all but spares and replacements for existing imperialstandard equipment, they will compete at a disadvantage with overseas producers," he said. He saw little prospect of early progress to full metrica-

Levi plans 1,000 jobs in Scotland

By Ray Perman, Scottish Correspondent

LEVI STRAUSS, the U.S. clothing manufacturer, is extending and modernising its Scottish factories as part of expansion which will create another 1,000 jobs by the end of next year. The company said a year ago

that it was investing £7m in Scotland—where it had good productivity and labour relayoung people learning metric tions—to increase output of denim jeans and new products such as sportswear,

Since then a new operational headquarters has been opened at Paisley and Levi has leased a 58,00 0sq ft factory from the Scottish Development Agency at Bothwell Park, Glasgow. The agency is to lend the company a further £2m fgor a second will cost from just over £4,000 factory at Bothwell Park.

A 53,000 sq ft factory at Inchinnan, Renfrewshire, is being bought from the agency for £750,000, which includes te cost of modernisation work. The agency is building a £1m extensio nto Levi's factory in Dundee.

The company employs 1,400 people in Scotland and also manufactures at Carfin, Lanarkshire, and Whitburn,



Stephenson's Rocket takes to the roads

THE original Stephenson's Rocket, built in 1829, pic-tured above, left the Science Museum in Kensington yesterday on its first journey away from the museum in

almost 120 years. The locomotive is on loan to the Merseyside County Museums until October, as part of the 150th anniversary elebrations of the Liverpool-Manchester railway.

Under police escort, the Rocket was transported from London via the M1, M6, M62 and M57, at a maximum speed ferring to A roads for the final leg of its journey, it is expected to reach the museum in William Brown Street, Liverpool at 12.30 pm today. Transport is being provided free of charge by McGregor Cory Haulage, part of the Liverpool-based Ocean Group the international transportation distribution, and shipping company.

At Liverpool a welcoming committee, including the Lord Mayor, Councillor Mrs. Doreen Jones, Sir Kenneth

Merseyside County Council and Councillor John Last, chairman of the county arts and culture committee, will receive the locomotive. On the museum steps Sir Kenneth Thompson will present Sir Lindsay Alexander, chairman of the

Ocean group, with an inscribed miniature in appreciation of the part played by the group in bringing the Rocket to Liverpool. The locomotive's protective covering for the journey was Castree Brothers of Bootle. A clear low density poly-ethylene, supplied by BXL Flexible Packaging Division based in Liverpool, ensured

The Rocket was one of three locomotives to take part in the Rainhill Trials, held in 1829 by the Liverpool and Manchester Railway Company, to decide the relative merits of locomotives. It alone fulfilled all the trial's

Frozen food set to became growth area of the 1980s

THE FROZEN food industry in the UK is set to become one of the few growth areas for food in the 1980s in spite of the expected static growth in volume demand for food

as a whole during the decade. Figures published yesterday by Birds Eye, the world's largest frozen food company, show that total sales of frozen foods in 1979 were £920m compared with £790m in

More important, the Birds Eye figures show that frozen food sales in 1979 increased in volume by some 8 per cent. This is the first significant growth in the size of the frozen food market for

The trade estimates that volume growth will continue in the early 1980s, although at a slightly lower rate than the 8 per cent spurt last year. This return to volume growth,

however, after a decade in which both sales and profitability were sluggish, could not have come at a more appropriate time. Since 1980 is both the 50th

anniversary of the marketing of the first frozen foods and the silver jubilee of that

consumers were becoming more sopphisticated about frozen foods and wary of the low quality produced by some

companies. Thus, the last decade bas seen the classic situation of too much production chasing a static market. The inevitable result was low profit margins for the major companies and

still inadequate and

NEWS ANALYSIS. David Churchill, Consumer Affairs Correspondent, looks at the multi-million pound frozen food industry.

stalwart of the industry—the fish finger. Some 1.2bn fish fingers are now sold every

responsible for making frozen foods commercially viable was an American biologist and inventor called Clarence Birds-

eye. Birdseye's hobby was fur-trapping in the frozen north of America and, like others including the Eskimos, he was used to eating fish and caribou which had been naturally frozen but was still edible when thawed out some time later.

Birdseye began to realise the commercial possibilities of quick freezing foods for sale. svereal years experiments to reproduce mechanically the natural. freezing conditions of the Arctic wastes, in 1924 Birds eye developed a quick-freezing device which is still used

today. Like many inventors, Birdseye was faced with the dilemma of marketing his invention himself or selling to a larger company. In 1929, however, he decided to sell his frozen food technology — for some \$22m — to a fast growing U.S. company called Gneral Foods. What immortalised his work was the company's decision to take his name, split it into two, and use it as their trademark. Thus Birds Eye was

The first frozen foods were put on sale in March 1930 in Springfield, Massachusetts. However, frozen foods did not really come to the UK until after the Second World War, when Unikeyer acquired the Birds Eye name outside the

During the 1950s and 1960s, frozen foods became a highgrowth market as increasing living standards and developing technology made the processin gand distribution of frozen foods more efficient more homes bad

refrigerators. Yet, the rapid growth of the market aftracted numerous operators and led to considerfood sales can be expected to show a consistent volume growth during the 1980s.

bought simply by making the products available

According to Birds Eye, the co-ops 11.5 per cent.

pared with 1.16m in 1978. Birds Eye also reveals that, for the first time, more frozen food is bought by domestic freezer owners than by non-

freezer owners. In through caterers.

responsible for about 70 per foods sold in the UK. The basic reason for growth

in the 1980s will be the continuing trend towards convenience foods as more women go out to work and as living standards rise. Birds Eye's figures show that the proportion spent on basic frozen foods-such as peas and fish fingers—is declining as people spend more on ready meals and other new

many smaller companies going out of business. Yesterday Mr Don Angel, Birds Eye chairman, warned that "anyone who now thinks that

cold stores are filled with pots of gold is in for a shock." He said that profit margins were large and distinguished companies are finding it uncom-fortably difficult to achieve reasonable levels of profit-ability in frozen foods."

Birds Eye is also cautious about the reasons for last year's volume growth, pointing out that the severe winter last year meant that fresh foods were les savailable and consumers turne dto frozen foods This caution is tempered by

several reasons why frozen

Probably the main reason for optimism is the increasing willingness of the major multiple supermarkets to stock more frozen foods. Since the bulk of food shopping is through multiple grocers, they obviously have a large say in determining what is

multiple grocers now account for some 46 per cent of frozen food sales, with specialist freezer centres selling 18 per cent of the total, independent grocers' 12.5 per cent, and the

It is the small independent grocer, however, whose sales are being hit most by the extra sales through multiple supermarkets.

Another reason for optimism

within the industry is the steady growth of home freezer ownership. More than 42 per cent of households now own a domestic freezer, according to Birds Eye. In 1979 some 1.27m freezers were sold for the home, com-

freezer owners spent £368m on frozen foods compared with the £342m spent by non-freezer owners. The remain-ing £210m represents sales

Birds Eye estimates that by 1984, freezer owners will be cent of the volume of frozen



Prudential profile No.2: Kenneth Fleet reporting



"The Prudential has strong support at the grass roots. I find out why."

ocal representation has always been one of the Prudential's strengths. The Company Thas as many as 460 District Managers with over 11,000 staff-the men and women from the Pru' who keep in daily contact with people in their district. Kenneth Fleet visited a typical Prudential country 'parish' in Scotland to join a Prudential agent on his rounds of the local farming community.

Kenneth Fleet: When did you begin to think about insurance Robert?

Robert Barclay: (farmer) When I was a boy my father took out insurance for me. When I got married and started a family I took out more.

Fleet: I imagine there are several types of insurance which a farmer finds necessary for his farm and for his work?

Barclay: The main one is fire and storm damage cover. With farming nowadays mechanical accident risks have increased. Also accidents to visitors like yourself.

Fleet: Although you're still a young man do you think about a pension?

Barclay: The earlier you get started the better as far as these things go. My father was a bit older before he took out a pension policy and he's paying a far bigger premium than if you start young.

Fleet: Tell me, Allen, how your connection with Mr. Barclay has developed.

Allen Sey: (Prudential Agent) It's developed greatly since I took over nine years ago, in part due to inflation. The Barclays felt that if the farm was to keep in step with inflation they would have to increase farming community. their policies accordingly.

Fleet: Do you offer the whole range of insurance to a farmer like Mr. Barclay?

Sey: We're geared for all sorts of policies. One policy which is a great attraction to a farmer like Robert, deals with capital transfer tax. A Prudential policy enables proceeds on the death of his father to be paid to Robert free of tax, as a capital sum. Capital transfer tax is one of the farmer's biggest concerns

Fleet: Do you call regularly?

Sey: I come out once a quarter to collect life insurance premiums and of course I also call yearly to review the house and farm insurance. Fleet: Robert, do you see Allen as somebody

trying always to sell you an insurance policy, or do you see him more as a friend and adviser? Barclay: Oh more as a friend. He's not ramming

it down your throat all the time. Fleet: Is he good at settling claims? Barclay: Pretty good. Two recent claims were dealt with fairly efficiently. The porch in front of the

house blew down in a storm. Fleet: He's done a good job for you, and you feel you've got a good deal?

Barclay: Aye.

Fleet: Allen, how big is your area? Sey: About 33 square miles, consisting of mainly

Fleet: Do they rely on you for all their insurance? Sey: I have probably more farm calls than 80% of my competitors and therefore I concentrate more on that side of the business.

Fleet: Apart from the merits of the actual policy you sell, what is the most important thing that makes you so successful in your job?

Sey: The service the Prudential gives to its client. If there's a claim, Mr. Barclay picks up the phone and I'm up there probably the same day. I assist him generally in filling in the claim forms whereas many insurance offices leave the policyholder to fill it in

himself. With us you're not just a number. The Prudential's annual report is now available from the Publicity Department, Prudential Assurance Company Limited, 142 Holborn Bars, London ECIN 2NH.

Prudential You don't know the half of it. BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDENT

SIR MICHAEL EDWARDES. BL chairman and chief executive, had a pay increase of nearly 9 per cent last year, from £52,500 to £57,200. This is shown in BL's

annual report sent to shareholders yesterday. Sir Michael's pay compares with the £84,726 salary of

Sir Terence Beckett, Ford of

Britain chairman, a 10.8 per

cent increase on 1978. The BL report gives some indication of the cost so far of restructuring which involves cuts or closures at 13

factroies and the loss of at least 25,000 jobs.

Miami air

link battle

hearings

By Michael Donne,

open

The 1979 provision was £18.7m, including £9.2m for car operations and £8.2m for plant closures within Aveling Barford, the ailing construc-tion equipment offshoot.

This compared with £31.6m in the 1978 accounts, which took in an estimated £11m for closure of the AEC truck plant at Southall and £20.6m for rationalising certain UK foundry and manufacturing operations and eliminating some loss-making overseas operations.

BL Leeems to have taken a cautious view of restructuring costs. It was able to add back £10.9m last year (£10.6m in 1978) from provisions made in previous years but no longer

Of the £10.9m, some £8.4m was over-provision in 1977 for car manufacturing in South Africa. These were to have been sold and £17.1m provision wasm ade. The negotiations foundered and the subsidiary has rationalised during 1979.

BL says the Southall prorision " has proved adequate," but the halance remaining has been held over until the site

The accounts show the extent of financial problems within Aveling Barford, which was up for sale for some time. The construction equipment trading loss reached £12m on sales of £48m, against a £5m loss on sales of £57m in 1978.

Presteold, the commercial refrigeration concern BL also attempted to sell, produced a £2m trading profit on sales of £66m compared with a £1m loss on sales of £61m in 1978.

As reported, the car operations had sales of £2.060bn (£2.173bn) and a

trading loss of £45m (profit of £63m). The commercial vehicles business had sales of £633m (£570m) and a trading prefit of £11m (£12m).

The report confirms that the car companies "deman-ned" by about 10,000 Jobs and BL Commercial Vehicles by 5,000 jobs "without significant internal disputes significant intermed and achieved greater productivity compared with 1978." Total manpower was reduced by 18,500 jobs to 168,561 at the end of December 1979.

Managers' pay, Page 10

House building 'could be

THE NUMBER of houses built Airways and Air Europe for rights to fly the London (Gat-wick)-Miani air route opens in London today, when the Civil

Aviation Authority starts public hearings into both air-Originally, there was a third applicant for the route, British Caledonian Airways, but the airline withdrew following the recent award of rights for the Hong Kong route, on the grounds that it had enough new

ventures to cope with. London-Miami is a "dual designation" air route—it can be served by two airlines from Completions each country. The present UK operator is British Airways. The existing U.S. operator is

Pan American. Several U.S. air-lines, including Eastern, Braniff and Air Florida are competing to become the second U.S. operator. The route has become popular with UK holiday-makers in the

past year or two, and already there is a substantial volume of charter as well as scheduled Air Europe says that the route would be worth an overall \$160m appually in fares, and

that it would operate four return flights a week in the first year, rising to six flights a week in the summer, together with charter services.

Mr. Martin O'Regan, chief executive of Air Europe, says

that it would expect to be able to carry 93,000 passengers in the first year, rising to nearly 150,000 within three years. The route would become profitable by the end of the second year.

Air Europe would offer a one-ay fare of £95 Standby in the offer a £155 single Economy Class fare off-peak and £185 single in the peak netiod, with a Vacation Rate of £105 single off-peak rising to £135 single in the peak period.

Laker Airways' interest in the route is also strong. It recently was not only denied its bid for the Hong Kong route, but was also refused rights to a substantial number of European shorthaul routes from Gatwick

 Brymon Airways, the rapidlyexpanding West Country airline, is to take over Plymouth Airport from the local authority o na 125-year lease from May 1. The company plans to lay another hard runway, improve existing terminal buildings and instal new hangers and other

The takeover is part of a major investment programme which includes purchase of two provide more resources for innew de Havilland Canada 50-seat Dash Seven four-engined short take-off and landing aircraft, puting and telecommunications and strengthen the forces for trial performance, unable to costing a total of about £7m insystems, and the potentially alldecision making, to fill the gaps

agree on repair of the rope or cluding spares.

lowest for 50 years'

in Britain this year could be the lowest for more than 50 years, according to the National Housebuilding Council, the house building in-dustry's consumer watchdog

Sir Peter Trench. the council's chairman, said in even the 100,000 mark will be

housing in 1980 may, Sir Peter added, only reach about 115,000 compared with nearly 133,000

lowest-ever points-starts this overall housing output could decline to a level unknown since the 1920s.

After a period of high profit-ability for the house-builders. The underlying London yesterday that without house prices were stabilising a dramatic improvement in the while building costs were rising rate of output, work was unsharply. The resulting squeeze likely of begin this year on on margins was expected to more than 105,000 private begin to bite over the coming sector homes against 140,000 months, though the industry starts in 1979. Some builders does not believe the true sharply. The resulting squeeze are known to doubt whether extent of the difficulties will show until next year.

Sales remained encouraging. however, though mortgage finance costs and shortgages have led growing numbers of intending purchasers to with-

With public sector house Sir Peter said the situation building now at one of its could begin to improve—though year are expected to fall well output — once interest rates below the 1979 total of 80,000 started to fall. The building societies would then attract more funds for lending and more home buyers could con-

The underlying state of the housing industry was healthier than it had been in 1974, when at times over 50,000 homes were unsold. Today, the figure was likely to be nearer 20,000 and fewer bankruptcies would therefore occur.

Sir Peter said he was approaching the chairmen of 100 of the country's largest companies to suggest ways in which they could, for little cost, provide temporary assistance to employees

Steel scrap companies warn of switch from rail to roads

BY ROY HODSON

be switched from the railways to the roads unless the Government authorises early investment in new railway facilities, scrap reclamation companies say. It would involve up to 2.5m tonnes

departments and British Rail. off-peak period from October 1 says the situation has reached companies or other sharing to June 30, but it would also crisis point. Many of the 38,000 systems.

MOVEMENT OF steel scrap will their working lives or need extensive repair. A £30m scheme to provide 1,600 51-tonne capacity airbrake

wagons has been discussed, but general support is still lacking. The scrap companies want of steel scrap a year. British Rail to provide the reThe companies say their placement wagons. There is The report says: "It does patience is exhausted after two some sympathy for this from seem quite clear that unless an arrive says are saying and the

The possibility of obtaining EEC or British Government grants is being considered. The reclamation industry is

taking a gloomy view of pros-pects for scrap deliveries by

years of talking to Government public and private sector steel- early decision is taken and the departments and British Rail. makers which buy the scrap, but necessary capital investment. A report before leaders of the British Rail is anxious that the authorised a good deal of exist. British Reclamation Industries parties concerned examine other ing investment in rail facilities | vide only 22 gigawatts of nuclear Confederation at their annual options, including private owner- by scrap processors and steel

South Wales and South Yorkshire will be worst affected in small rail wagons (16 tonnes "None of these appeal to the terms of real congestion if scrap capacity) used for scrap movements have reached the end of Scrap Federation.

"None of these appeal to the terms of real congestion if scrap steel is increasingly sent by road.

State technology policy criticised moves criticised

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

THE GOVERNMENT'S refusal technologies, need to be are filling more successfull, to to expand State aid for high diffused throughout industry," assist in the taking of risks, technology ventures was critimary. The cised yesterday by Mr. Geoffrey minster branch of the British porate change."

Chandler, director general of the National Economic Develop
"The sustaining of research with remarks Mr. Chandler has ment Office.

Speaking a week after Sir intervention in developing industrial robots, Mr. Chandler said the Government should

"Automation, robotics, com-

and development for these at company level at a time of re-Keith Joseph, Industry Secre-cession is something the tary, sejected calls for State Government can legitimately assist, as indeed a number of our competitors are doing." CONSENSUS

The Government should provide additional resources "in a manner which helps to diversify

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with remarks Mr. Chandler has made before and is now repeating at a time of growing con-cern about the impact of economic problems on companies' technological research. Mr. Chandler said Britain

needed. a consensus on how to tackle economic problems. "We are a tightrope walker on the frayed rope of past induspervading micro - electronic in the market our competitors the provision of a safety net."

CEGB move for water reactor station

CENTRAL Electricity Geenratig Board took ts first firm step to acquir a pressurised water reactor nuclear power station. It issued a letter of intent to the National Nuclear Corporation, which oversees the nuclear construction programme, authorising it to begin design and manufacture of the nuclear steam supply system for the American-resigned

The corporation needs this letter of confirmation for its inghouse, the U.S. company providing technology for the 1,100megawatt reactor, expected to be Sizewell. Essex.

The CEGB move is in line with last December's statement by Mr. David Howell, the Energy Secretary, committing the Government to a 15.000-MW nuclear expansion programme in the decade from 1982.

Coal use 'will not drop in 1990s'

SLOW PROGRESS in expansion of the nuclear power industry meant that a decline in coal burned for electricity in the 1990s was highly unlikely, the National Coal Board said. Mr. Robert Alexander QC, in his closing speech for the NCB at the Vale of Belvoir coalfield inquiry, said even full imple-mentation of the Government's positive industry policy, builda decade from 1982, would proenergy by the year 2000.

Department of Energy project tions of 40 gigawatts, he said, and already it seemed unlikely could be started in 1982.

Banking support

THE GOVERNMENT'S intention to continue to provide unlimited lending of last-resort facilities to the banking system as a routine matter each day is criticised by the stockbrokers W. Greenwell.

In their latest monetary bulletin, the brokers discuss the proposal to continue this sup-port as set out in last month's joint Treasury and Bank of England consultative Green Paper on monetary control. The firm criticises the intention to provide unlimited regular support for the money market, and says that the central bank should control supply of reserves in the monetary system directly.

Interest rates fall 'unlikely'

AN IMMEDIATE (al) in interest rates is unlikely, says Mr. Robin Leigh-Pemberton, chairman of the National Westminster Bank The bank has predicted that bank base rates for overdrafts, currently 17 per cent, could start to decline by June-July and reach 13 to 14 per cent by the end of the year. Mr. Leigh-Pemberton said at the annual meeting of the bank that an early fall was unlikely because of high rates overseas, particularly in the U.S., and "domestic uncertainties."



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Teles 64245 Of SCC VOOR travel agent Marshall B. Coyac, Propriets



Docks Board profits down by 10% after 1979 strikes

BY WILLIAM HALL, SHIPPING CORRESPONDENT

British Transport Docks Board, which controls a quarter of UK to £26.8m last year,

The overall tonnage of traffic through the group's 19 ports, which range from Southampton to Troon in Scotland, rose by 42 per cent to 82.2m tonnes. However, revenues grew more than twice as quickly to a record

Last year's road haulage strike and engineering strike hit the board badly, causing a £5m loss in revenue, virtually all of which was profit.

This year, the steel strike has lost the nationalised ports body £4.5m in revenue, but some of this is being recovered because of a surge in steel im-

All of the board's ports last year produced net profits be-fore xtra derectation for inflation. Sixteen made net profits after additional depreciation.
The exceptions were Hull, which was badly hit by the road hauliers strike, Cardiff, which was hit by the closure of the East Moors Steelworks, and Southampton, which is suffering from heavy financing charges. After aditional depreciation

for inflation of £10m and in-terest of £6.5m, the board which has been self-financing since 1972, made pre-tax profits of £13.6m Ir repaid £10.8m of loans and invested £13.9m.

The Government has said it would like private capital in-Itroduced into the Docks Board. Sir Humphrey Browne, the chairman, said yesterday a Bill to implement the Government's

SOUTH WEST

since

Factory areas show jobless rise

THE RISE in unemployment that manufacturing companies

Above average increases have difference in the rate of increase also been reported in other of unemployment between men

major manufacturing areas, and women. The male percent-

last summer has been under tight financial pressures

have been laying off workers

and have been reluctant to

Surprisingly, the increase in

There has, so far, been little

age of 7.1 remains considerably

higher than the female rate of

replace those who have left.

BY OUR ECONOMICS CORRESPONDENT

largest in regions where there is a heavy concentration of

While the number of adults

out of work in the UK has risen

by 15:4 per cent since last

September, when the national

upturn began, the rises have

West Midlands, North-West, North and Wales.

been more than 20 per cent in above the East Midlands, Yorkshire average.

This ties in with the view 4.5 per cent.

manufacturing industry.

and Humberside.

THE OPERATING profits of the would be on the statute book next year, and a share flotation could occur any time after that port traffic, fell by 10 per cent Kleinwort Benson are advisers to the Docks Board.

The Board's return on capital fell from 16.9 per cent to 15.1 per cent during 1979. Five years ago the Board had agreed o cent by 1980 but Sir Humphrey said yesterday that this had assumed more rapid growth than had occurred, and would

Containers

The tonnage of ores moving through the oBard's ports rose by 16.4 per cent to 10.8m tonnes last year and timber traffic was up by 16.8 per cent at 1.2m tonnes. Traffic also rose substantially by 42 per cent in import/export cars.

Container and roll-on/roll-off traffic rose by 5.6 per cent during 1979 and Southampton has re-established itself as one of the country's leading con-tainer ports. Apart from one short unofficial stoppage Southampton had no strikes last year and several new services started using the port, which employs almost a third of the Board's workforce. Of the group's other large

ports, Immingham has estab blished itself at the main UK port for exports to Ghina — general cargo traffic with China increased by a third last year.

As a result of the steel strike this year the Board is wary of forecasting the outcome for 1980. In thet short term, any sanctions imposed on Iran could wishes would probably be intro-ducer in the next session of in South Wales, which handles Parliament, If all went well it Talbot car exports.

to double TV output in Britain Financial Times Reporter

Matsushita

MATSUSBITA ELECTRIC. the Japanes consumer electronics group, yesterday announced plans to almost double its output of colour televisions in the UK by expanding capacity af its Cardiff subsidiary. A third 60,000 square foot

factory is being built in Cardiff at a cost of £2m. Matsushita makes music centres, radio tuners and televisions there under the National, Panasonic and Technics brand names:

The expansion will consolidate Japan's strong position in the British television industry. Five Japanese companies aiready have manufacturing operations in the UK and a sixth the Victor Company of Japan (JVC) has been negotiating the purchase of Decca's television interests. Hitachi and Toshiba have set

up joint ventures in the UK with General Electric Company (GEC) and Rank respectively. Matsushita, Sony and Mitsabishi are running independent opera-tions. Sony's UK subsidiary re-cently won a Queen's Award for Export Achievement.

The company intends to increase colour television output to 120,000 units a year. The additional sets will be mainly 26-inch models intended for export to Continental markets, notably West Germany, France and Italy.
Last week Thorn EMI, the biggest of the manufacturers which are still wholly UK-

owned, announced agreement in principle to manufacture in Britain video discsa nd players designed by JVC The new Matsushita factory is

due to start production by the beginning of next year. It will provide about 140 jobs initially, rising to about 300 in three years. The two existing fac-tories employ 400 people.

Mr. Shunji Matsuoka, manag-ing director of Matsushita (UK), said the new investment would create substantial opportunities for British component suppliers. The company was already buy-ing up to 70 per cent of its components by value from more than 40 British companies. Exports by the Cardiff plants fell last year to about 18 per

cent of production. Matsuoka said among the reasons for this were the strength of sterling and the changing pattern of demand on the Continent in favour of the 26 inch set. The market for audio equipment was "not so good."

Alastair Roger dies at 64 in 7imhahwe Financial Times Reporter

MR. ALASTAIR ROGER. governor of Globe Investment Trust, has died in hospital in Salisbury, Zimbabwe. He was

64 and unmarried.
Mr. Roger, who was also chairman of Temple Bar Investment Trust and a director of Electra Investment Trust, was ous visit to Salisbury to inspect Electra's interests in Zimbabwe. In the last few years Electra Group Services, the manage-ment company which runs Globe, Electra and Temple Bar, has gained a wide reputation in the investment trust world for its imaginative approach to the problems of the sector.

Among Mr. Roger's other sppointments was the deputy chairmanship of the British cirtel Ec tida yds vbg emfwbg Electric Traction Company.

Northern Ireland since last September has been only 8.8 Advertising talks per cent although the percentage rate there, 11.3 per cent, is well above the 6 per cent national

OFFICIALS from the Office of Fair Trading held top-level talks with the Advertising Standards Authority about its refusal to monitor advertisements which give misleading price comparisons. Under the price marking legislation introduced last sum-mer, retails of most consumer goods are forbidden to make price comparisons with manufacturers' recommended or other unsubstantiated prices.

Good prices for Islamic items

SOTHEBY'S week of sales of Islamic items has been proceed-ing much better than might have heen expected. Forecasts have been marked down, but even so, apart from poor demand for Qajar lacquer, where in the past Iranian buying inflated prices, the auctions have gone

SALEROOM

BY ANTONY THORNCROFT

Not surprisingly the Mughal items, most collectors of which are European, are the best feature. Two illustrations from the Jami al-Tavarikh of Rashid al-Din, late 1590s, did particularly well, with Colnaghi acquiring two miniatures, for £27,000 and £24,000 respectively. Calligraphy also did well, 3 Qajar Koran of 1866, with 253 leaves, selling for £25,000, against a cautious estimate of about £1,000. Spinks paid Shahnama of about 1580, with

BASE LENDING RATES A.B.N. Bank Allied Irish Bank

17 % Hambros Bank 17 % Hambros Bank 17 % Hill Samuel 517 % C. Hoare & Co. 117 % Hongkong & Shanghai 17 % Industrial Bk. of Scot. 17 % Keyear Illigrams American Express Bk. 17 cg.
American Express Bk. 17 cg.
American Express Bk. 17 cg.
Henry Ansbacher ... 17 cg.
A P Bank Ltd. ... 17 cg.
A P Bank Ltd. ... 17 cg.
Associates Cap. Corp. 17 cg.
Banco de Bilbao ... 17 cg.
Bank of Credit & Cmce. 17 cg.
Bank of Cyprus ... 17 cg.
Bank of N.S.W. ... 17 cg.
Banque Belge Ltd. ... 17 cg. Industrial Bk. of Scot. 171 Keyser Ullmann 17 Knowsley & Co. Ltd. 19 Langris Trust Ltd. 17 Lleyds Bank 17 Edward Manson & Co. 18 Midland Bank 17 Banque Belge Ltd. 17 %
Banque du Rhone et de
la Tamise S.A. 171% Barclays Bank 17 of Bremar Holdings Ltd. 18 c. Brit. Bank of Mid. East 17 of

Bremar Holdings Ltd. 18 %
Brit. Bank of Mild. East 17 %
Brown Shipley 17 %
Canada Perm't Trust. 18 %
Cayzer Ltd. 17 %
Cedar Holdings 17 %
Charterhouse Japhet. 17 %
Choulartons 17 %
Consolidated Credits. 17 %
Cooperative Bank *17 %
Coriothian Secs. 17 %
The Cyprus Popular Bk. 17 %
Duncan Lawrie 17 %
Eagil Trust 17 %

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P. S. Refson & Co. 17 %
Rossminster 17 %
Ryl. Bk. Canada (Ldn.) 17 %
Schlesinger Limited 17 %
E. S. Schwab 17 %
Security Trust Co. 144 19 % Whiteaway Laidtaw 1719
Williams & Glyn's 17 %
Wintrust Secs Ltd 17 %
Yorkshire Bank 17 %

7-day deposits 15%, 1-month deposits 15%, 1-month of the first series of \$10,000 and under 15%, tip to \$25,000 15%, and over \$25,000 25%.

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April 18, 1980

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Pierson, Heldring & Pierson N.V

Sal. Oppenheim jr. & Cie.

Vereins- Und Westbank

BY NICK GARNETT, LABOUR STAFF THE EXECUTIVE of the pay offer should be accepted. National Westminster bank staff Its executive said yesterday, however, that the position had and Lloyds are to meet today, and a joint meeting of staff Northern, the Ulster, Allied Irish and the Bank of Ireland association yesterday overturned put forward new proposals which included establishing a

Pay offer opposed at NatWest

now changed because of "un-certainty" following the messengers' settlement and the likely level of the main pay claim for messengers. a decision of its management committee and decided to recommend rejection of the 18-21 per cent pay offer to clerical staff in the five English clearing The NatWest messengers'

This could create difficulties dispute concerned local in wage negotiations for the relativities and was not conbanks' 200,000 clerical and nected with the annual pay management staff. nected with the annual pay negotiations for technical and services staff, which covers the The association's executive

made it clear yesterday that the decision was a result of the local pay differentials settlement for bank messengers achieved this week after industrial action by the Banking. Insurance and Finance the local payers of the loca

The NatWest messengers' settlemlent includes provision for substantial increases for young messengers with experi-ence, which the staff association sent out a circular last week thinks compare favourably with arguing that the clearing banks' the rises offered to clerical

handling currencies in the European Monetary System (EMS) would continue until the result of the ballot was known in the latest offer includes a lump sum in the form of a backdated salary increase for the six months up to last March 1. This is chewit 10 decimal to about 10 decimal to a

associations will take place on Friday to discuss pay. The bank-ing union said yesterday it would

ban transactions between the Province and Great Britain

while a new pay offer is put to

ciation said after talks in

Belfast that its present ban on

in about 10 days. The four main banks-the cent of salary.

is equivalent to about 10 per

ing union said yesterday it would formally reject the clerical staff pay offer.

Our Belfast Correspondent writes: A threat by 5,000 bank staff in Northern Ireland to ban transactions between the province.

from today has been called off of 12 per cent of salary to com-

a ballot. ing from the break in parity
The Irish Bank Officials Assobetween sterling and the Irish

Scottish TUC hits as Tory rule

BY CHRISTIAN TYLER, LABOUR EDITOR

The bank staff association's

counted what they saw as the were "four hard years" ahead. frustration at rising unemploycos to their region's economy This admission, from one of ment and prices and diminish- start of a process, a "demoon Prime Minister Mrs. the chief propouents of the ing industrial aid and social cratic process," of using all

worse before they got better. Conservative Government.

SCOTTISH trade unionists, his- Union, said there would be no held out as an early oppor- Communist president of the torically among the most mili- Government U-turn of the tunity for Scottish trade union Scottish miners, was predictably Britain, yesterday Heath variety and that there

Margaret Thatcher's first year U-turn theory, summed up the services. mood of yesterday's economic Delegates to the 83rd annual debate—a mood of defiant and Mr. Tom Jackson of the meeting of the Scottish TUC, aceptance not of Conservative Union of Post Office Workers.

Moderates like Mr. Basnett

were told that things would get policies but of the fact of a were to the fore in their condemnation of the Government's Mr. David Basnett, of the The British TUC's day of economic management. How-General and Municipal Workers' action in three weeks' time was ever, Mr. Michael McGahey,

He said the miners nationally would not accept any pit closures caused by the troubles of the steel industry or by the

tacivists to demonstrate their more explicit.

importation of coal. Despite the vigour of the Scottish TUC's verbal attack on the Tories, there was little detailed discussion of the right programme for Labour although the eight points of the 'alternative strategy" spelled out in one of the resolutions carried.

joint committee to review industrial relations in the

claim for a lump sum payment

pensate for extra work result-

The latest offer includes a

May 14, he said, must be the

means available to bring about an early General Election defeat of the Government and

to replace it with a government committed to socialist

AUEW rejects industrial action

BY ALAN PIKE, LABOUR CORRESPONDENT

committee decided yesterday that industrial action was not an appropriate weapon to use against unemployment.

Right-wing delegates at the committee meeting in Blackpool deleted a reference to industrial action from a resolution which also calls for a vigorous campaign, including demonstrations, lobbies and a national day of action to demand cuts in unem-

Left-wing delegates were afraid that, if the reference to industrial action disappeared, it would be more difficult to mobilise AUEW members in support of the TUC's day of action against Government policies on

√lastair R∰

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THE AMALGAMATED Union of secretary, warned that, if the unionists "so as to ensure that Engineering Workers' national union had a general policy of the day of action will be a industrial action against unemployment, the executive would

> any future action which might be proposed in the TUC. Unless the phrase was deleted the AUEW would be "bludgeoned into supporting anyw ild, woolly proposals that emanate from particular sections of the TUC general coun-

have no licence but to support

Mr. Terry Duffy, president, said afterwards that the 29-23 vote against including the reference to industrial action would not alter the union's posi-tion towards the May 14 demonstration. The executive has sent a circular to district secretaries

with the IPCS and CPSA.

Withdrawal from PRU by two

large unions could leave the Government with the task of

service which would be accept-

able enough to the unions to

stave off repeated bouts of industrial action but without

building in the likelihood of

 The Government yesterday refused to expand its confirmation that it is considering ways to cut the size of the Civil

Union leaders pressed Mr. Paul Channon, Civil Service

Minister, and senior officials of

even larger pay settlements.

But Sir John Boyd, general

BY PHILIP BASSETT, LABOUR STAFF

UNION officials representing

the Civil Service's Pay Research

should be ended as soon as

The Institution of Professional Civil Servants' stand.

possibility that the Civil and

Public Services Association will also oppose PRU at its con-

ference next month, suggests

that more than half of all 600,000 white-collar civil ser-

vants may withdraw from the

Such a move by the two large unions would probably be followed by similar decisions by unions linked to them, such

as the Inland Revenue Staff Federation, and others dis-affected with this year's PRU

findings, such as the Civil

A withdrawal could precipi-tate a serious split in the ranks of the unions National Staff

Side, since the second-largest

union, the Society of Civil and

Public Servants, whose members do relatively well out of

PRU, is unlikely to join forces

present pay agreement

Service Union.

possible.

100,000 professional civil servants yesterday declared that

Union challenge to

Pay Research Unit

comparability system finding a pay system for the

Mr. Michael Towey, a Bir-mingham delegate, said in the debate that in his area the day of action was not getting the support he would like, because AUEW members had not received a specific instruction to stop work.

Mr. George Anthony, a Leftwinger who fought to keep the reference to industrial action, said the union must, if necessary, be prepared to fight in support of its demands for a reduction in unemployment There was no suggestion that industrial action should be taken lightly. But, if employers calling on all members to were not prepared to listen to respond to the TUC's appeal for arguments. the union must maximum involvement by trade have the option open.

Dispute hits more

By Pauline Clark, Labour Staff

UNION LEADERS and men's pay made further attempts to sort out their differences last night as another newspaper group became a casualty of industrial action.

The Journal of Commerce, newspaper, Freighting World and the three weekly newsmembers. All the papers are printed by Swale Press at Widnes.

the Civil Service Department, to confirm, repudiate or correct recent Press reports, which have included the abolition of the grade of under-secretary and even of the whole Civil Service week's announcement by Bristol United Press that it

Department, and a new round of cuts to reduce the size of the service to 600,000. Mr. Channon said no firm pro-posals had yet been drawn up and that unions would be fully consulted when they had been. The unions said the Minister's response was "thoroughly un-

newspapers

employers in the national dispute about print crafts-

the Liverpool-based shipping papers in Liverpool, Widnes and Runcorn stopped publication vesterday because of the effects of actio nby National

Swale Press issued protective notices to its 120 staff to come into effect on Friday. The decision follows last was suspending publication.

• One of Britain's biggest printing firms sacked 130 workers yesterday. NGA staff at Norprint, of Boston, Lines., started a work-to-rule three weeks ago. It became a strike at the weekend.

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Managers' real pay down

BY PAULINE CLARK, LABOUR STAFF

MANAGERS' pay rose by 21.5. per cent last year, but remained manager earning nearly £10,000 significantly lower in real terms gross in January 1975 whose net than in 1974, says a salary the British Institute of Manage-

The survey of more than 36,000 salaries of executives in 395 companies showed a rise in managers' earnings of 4.9 per cent at 1979 constant prices. It pointed to an increasing trend toward payment of bonuses as part of total earnings, particularly as company performance-related bonuses.

Managers' average net real pay was out at just under 7 per cent lower than in January 1974, compared with a fall for the average wage-earner of 2

ings were showing signs of economy."

real pay since was cut from £6.382 to £5.511, at constant

On the outlook for 1980 the survey says that despite official calculations of increased disposable income last year, due posable income last year, due mainly to tax changes, inflation is catching up again, and increases in real earnings were already severely eroded before the Budget.

"In the face of certain receptions at higher avanging."

"In the face of certain to 51 per cent of the total per cent of

ment, it is highly unlikely that cent previously. This, it said, manual workers' earnings can was offset to some extent by go on outstripping clerical and Budget changes.
managerial pay?whether mana- While the same

of price rises and progressive a similar survey in 1979, it was from 12.3 per cent to 5.3 per taxation.

An example was given of a of manager, the lower the gross salary increase.

doubtedly need to restore differentials for the lowest level clerical and manual workers," both of which rose faster in

The trend towards bonus payments showed that 55.3 per cent were earning bonuses against 52.4 per cent last year and 35.8 per cent in 1978.

recessiona nd higher unemploy- surveyed, compared with 45 per

While the same proportion of gearial earnings will keep pace companies in 1979 and 1980 wil depend on how far and fast were said to have reported their companies can adapt and recruitment problems (22 per The survey said that earn- improve efficiency in a falling cent) the number who expressed difficulties about retaining worsening as a combined result Contrary to the findings of management staff fell sharply.

Reducing inflation 'must remain first priority'

tion must remain the Govern- policies must be adhered to. ment's first priority, the Prime Opposition benches over the of unemployment benefit. rising level of unemployment.

reaction to the announcement earlier in the ady that over 1.5m people were now out of workthe highest April total recorded not be reduced. since the War-she said: "One is always very worried about increases in unemployment."

Mr. Steel suggested that North rate of activity than was possible

policies.
Mrs. Thatcher replied that revenue from North Sea oil went into the Exchequer in the ordinary way. She pointed out that 401,000

people were now being assisted special employment by special employment measures, compared with 248,000 12 months ago. Mr. James Callaghan, the Opposition leader, challenged

the Prime Minister over comments made by Mr. John Biffin, chief secretary to the Treasury, admitting that there was no mechanistic and demonstrable link between a movement in

tion in the rate of inflation.

Amid cheers, he asked why, in the light of this statement. the Government was subjecting the country to such a savage rate of increase in unemploy-

Mrs. Thatcher described Mr. Biffin's speech as "excellent"

REDUCING THE level of infla- he emphasised that Government

Mr. Callaghan then asked Minister insisted in the Com- why, if unemployment was part mons yesterday when she came of Government policy, it had under renewed attack from the been decided to reduce the level

The Prime Minister replied When asked by Mr. David that the main aim of Govern-Steel, the Liberal leader, for her ment policy was to reduce the level of inflation-unless this was done, the level of unemployment in the long run could She explained that unemploy-

ment benefit was being increased "slightly below the Labour backbenchers shouled: level of the increase in prices." "Why don't you do something pending the introducton of taxation of short-term benefits.

Mrs. Thatcher again con-Sea oil revenues should be used to run the economy at a higher planned by the TUC for May 14 and assured Mr. Peter under existing Government policies.

Bottomley (C., Woolwich West) that ayone who did strike that day would not be entitled to



Callaghan battle on Finance Bill WEAK NATIONAL leadership. Conference on three occasions.

MR. JAMES CALLAGHAN, the Opposition leader, looks like winning his battel to get the Government's public expenditure plans debated on the floor Finance Bill.

This seems the most probable outcome of inter-party talks which followed last week's heated clash between Mr. Callaghan and Mr. Norman St. John Stevas, the Leader of the Commons, who suggested that the discussion on the Finance Bill should take pre-

Mr. Callaghan then warned that such a procedure would result in Labour MPs adopting "go slow" tactics to impede the. passage of the Finance Bill. It. Government's public expenditure White Paper will be debated in the Commons soon after the Ma yDay Bank Holi-

Clegg under fire from Tory MPs

PROFESSOR HUGH CLEGG, for Professor Clegg, who came dustrial relations against preschairman of the pay compara- under fire when the Commis- sures-from within the Cabinet

bility commission, received a sion produced a report recom- as well as from Tory back-work of sympathy and thanks mending settlements at a lower benchers—for the adoption of vote of sympathy and thanks level than had been expected, more hardline tactics. from Mr. James Prior, the and who was also criticised, Employment Secretary, when he came under further attack pay, the recommendations were the money supply and a reduc- from Tory MPs i nthe Commons regarded as too high.

Professor Clegg was called a dangerous old luny" by Mr. Jock BruceGardyne, (C., Knutsford), who has been leading the clamour from the Tory backbenches for the winding up of his commission.

Mr. Prior said he felt sorry

when as in the case of teachers'

"not unknown to some people "-where he could not

comment was interpreted by Labour !IPs as a with. reference by Mr. Prior to his own position, as he builes to sider whhether to keep the Com-preserve his "softly, softly" mission going," the Minister approach to the reform of a promised.

Mr Prior explained to Mr

Bruce-Gardyne who shouted: "In Heaven's name, why?" when tald that the Government was keeping the future of the Commission under review, that Professor Clegg and his colleagues still had a number of outstanding references to deal

"After that we shall reconmission going." the Minister

Prior pressed on strike ballots

BY JOHN HUNT, PARLIAMENTARY CORRESPONDENT

at Westminster has encouraged the last time by a vote of 500-3.

umon leaders to abuse their Mr. Browne insisted that the union leaders to abuse their power, Mr. John Browne, (C., Winchester), claimed in the Commons yesterday, when he introduced a Right-wing Tory clause to make unions hold from the shop floor. secret strike ballots when a of the Commons in advance of minimum of 15 per cent of the second reading of the their membership called for it.

He and other Tory "hawks" on the backbenches were putting pdessure on Mr. James Prior. Employment Secretary, to accept the principle of strike ballots. Mr. Browne, speaking during

the report stage of the Employment Bill, urged Mr. Prior to meet to strong feelings of Conservative backbenchers on this issue. He wanted the Government

to change the Bill at a later stage in the Honse of Lords introduce separate legislation on union ballots during the present Parliament.

"Trade union rank and file and the majority of our fellow countrymen expect such a commitment," Mr. Browne

He agreed that the Tory Right-wingers would eventually like to see the Government introduce a full mandatory strike ballot, without the 15 per cent qualification.

The present backbench proposal was a "mere mouse" and was the first step towards the mandatory secret ballot which "Conservative members and Conservative voters expect of this Government."

Mr. Browne called on the Government to restore sanity to industrial relations. The details in the new clause were not sacrosanct. It was the principle of the secret ballot that he and his friends felt so strongly

The sentiments in the clause had been approved by the Con-servative Trade Union National

"The result of the last difficulty in getting men back suggestion in the new clause was not for a mandatory ballot at this stage, but for a volun-tary secret ballot triggered

He did not believe that this would provide a panacea for stopping all strikes, but it might prevent some of them.

The true blame for chaotic industrial relations, demoralised management, low productivity, and high unemployment lay right here in this House." Said Mr. Browne: "This is where the blame for weak leadership must lie. This is where the answers must be

leaders who preach democracy but so few of them actually practise it. Many of them practise a form of partial or complete dictatorship under a veil of democracy.
"A man must be all but a

"There are many trade union

hero to lead a vote by a show of no authority to end it without hands against his union leaders' recommendations at a his union a balot."

that the majority of our fellow rank and file expect the present Government to induce the

unions to accept democracy." Mr. Ian Mikardo (Lab., Bethnal Green and Bowl described Mr. Browne's speech as "a lot of garrulous nonsense." It bore all the hallmarks of theory rther than practical experience. It frequently

happened that workers voted against going on strike, said Mr. Mikardo. In the National Union of Mone Workers no strike took place without a secret ballot. He said there were similarities between the Tory backbench proposal and labour relations law in America. But in the U.S., the number of days

lost per million workers was

Britain. you have to have a ballot to start a strike, you would have

general election convinced me to work because of the legislation which the Tories seem to Mr. Robert Dunn (C., Dart-

be applauding. ford) supported Mr. Browne and proposed a separate new caluse which would make unions hold-a secret ballot after a strike had been called. The decision to strike would have to

be validated by a simple majority of those voting. Mr. Dunn called on Mr. Prior to become a pilgrim and join those on the road to the promised land.

He will then strike a chord that echoes from our House, from our party to the majority of people beyond," he said.

Mr. Dunn recalled that a Tory supporter had recently advised five or six times higher than in his spinnaker up and sail with the wind that was blowing his Mr. Mikardo also warned: "If way. Mr. Dunn hoped that the Secretary of State would do Just

Te emphasised that the Conservative Party should not draw This was so in America, conclusions in Opposition which where they often had great it then denied in Government.

Study on ambulancemen's reports

AN URGENT study is to be A fast 12-week study would be undertaken by the Department undertaken to analyse which of Health and Social Security to authorities were not providing from It should be possible to provide something simpler, he ambulancemen to provide written information and why. On ambulancemen to provide the basis of that a revised form Mr. Ceril Clothier QC, the find the best way of persuading written information ambulancemen to provide the basis of that a written information about might be produced. patients they take to hospital.

Sir Patrick Nairae, Permanent had been industrial action last Secretary at the DHSS, told the Commons Select Committee on the Parliamentary Commissioner for Administration (acting as Health Service Commissioner) that there was a problem of transmission of information by ambulancemen:

hahd produced a model form for written reports in conjunction with the ambulance services, only about half of the 45 ser-

It was hoped that trade unions would co-operate. There

year in the ambulance service. which had not helped the use of orms, but Sir Patrick said he hoped any former unwillingness by unions to co-operate would disappear. Use of the forms did not put

ambulancemen under any legal liability for whatever they handled about 1.5m emergency calls a year. Although the DHSS extension of their present verbal reports.

Mr. Antony Buck, chairman of the committee, said he could sympathise with ambulancemen

A fast 12-week study would be detailed and complicated model

Commissioner, had detailed two complaints in his 1978-79 report in which patients died after collapsing, being taken to hospital and then being discharged the same day.

In both cases the ambulancemen said they gave details of the collapses to the nursing staff but in both eases the nursing and medical staff could not recall what, if anything, they had been told.

Mr. Clothier said it was "vital" to get round any problems so that more effective transmission of information preferably written, could be

NHS reform 'undemocratic'

GOVERNMENT PROPOSALS significance they deserve. for reform of the National Health Service will reduce local authority involvement in local health authorities and thereby fail to ensure democratic control of the health service at the local level, says the Association of Metropolitan Authorities.

England and Wales, the AMA most practical way of ensuring be taken to ensure that senior says the plans also fail to ensure democatic control of the health personnel and the district reams

ciple of abolishing the existing area health authorities and replacing them with district health authorities. But the local authority representation of a The AM says the importance third on AHAs will be reduced of community services is underto a fifth on the new DHAs if estimated. "Ninety per cent of

metropolitan areas of Mersey-side, Greater Manchester, West Yorkshire, South Yorkshire, Tyneand Wear, and West Mid-The AM says the importance

the proposals are implemented. health care takes place outside. There is an irrefutable case hospitals but there is little in First," the Government's confor local authority nominees to the consultative paper which sultativepaper on the structure comprise the majority of DHA acknowledges the role of comand management of the NHS in members. This would be the munity services. Steps should that community health services service at the local level." says are not simply hospital per-are afforded the importance and the AMA, which represents the sonnel under new titles."

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right to speak out

By Our Own Correspondent THE RIGHT OF chief constables to speak out in public on matters affecting police policy was defended yesterday by Mr. Alan Goodson, Chief Constable of Leicester and the current President of the Association of Chief Police Officers. The policeman," hesaid, "is inevitably today very much at the heart of the major problems on the domestic scene-criminal law reform, industrial relations, public order, violence, race. They generate intense public debate, and the police service cannot escape

being part of that process. "Is it any wonder that we are being driven out of our silent shell, are being pitched into the public forum and compelled to raise our voices lest our interests are drowned in the unchallenged chorus from the public commentators?"

Mr. Goodson, speaking at a conference of ACPO with editors from the media, said: "Some people are worried that the police are, it is said, heginning to shape the very nature of public opinion on important questions. And why not! In our own field we are professionals . . and we shall continue where we deem it appropriate to have our say." Mr. William Whitelaw, the

Home Secretary, said in reply that he personally welcomed the idea of chief constables speaking out in public on polic-ing in a modern society.

Benefits of shop floor

THE INSIGHT which the British working man has into the operation of his company should be used far more extensively to improve the overall performance of industry. Mr. John Nott, Trade Secretary, said vesterday.

Speaking at the Mach 80

machine tool exhibition at the National Exhibition Centre, Mr. Nott said that while he contin-ued to oppose the "extension of the institutional power of the trade unions " the shop floor had a great deal to contribute.

Policemen's Recruiting executives

EUROPEAN OPTIONS EXCHANGE

GOVERNMENT agreed to continue financing the initial Professional and Executive Recruitment Service f2.8m to finance in 1978-79.

operated by the Manpower Service Over the next few years, PEF vices Commission—at until September 1981.

In reply to a question from Mr. Andrew Bennett (Lab., Stockport North), Mr. Jim Lester, under-secretary for Employment, said that the Government had endorsed the MSC's proposal that a specialist public employment service should continue to be provided at the professional and execu-

The Commission would, he said, make a further full review by the autumn of next year.

Substantial changes are to be made to the service which now has 36 branches and cost

Over the next few years, PER staff of about 800 will be cut also be made by cutting back by around 300. Economies will from the existing computer matching of jobs and vacancies. A weekly newspaper will be introduced to take over some of the functions now handled

by computer. The PER was set up in 1973 as a fee charging service. It is self-financing on the recruit-ment side but Government money is needed to finance some of its other activities like retraining and the registration of unemployed people.

F.280 F.300 F.310 F.22,50 F.22,50 F.25,7.50 F.25,7.60 F.85,70 F.60 F.70 F.60 F.70 F.60 F.70 F.60 F.70 F.80 1.40 B.60 \$45. TOTAL VOLUME IN CONTRACTS

British Transport Docks Board **GROWTH IN THE '70s**

£134 m TURNOVER

F34m PROFIT (before interest) £ 27 m £ 4½ m **RETURN ON CAPITAL** 31/2%

STRONGLY PLACED FOR THE 80s

Sir Humphrey Browne, Chairman, says:

"After ten years' progress the BTDB has established a strong position to meet the challenge of the '80s."

Results for year ended 31 Dec	ember 1979	1979 _£m	1978 £m
	Revenue	133.6	119.9
	Profit before interest	26.8	29.7
	Profit after interest	20.2	23.2
·	Additional depreciation for inflation	9.9	8.1
·	Tax	6.8	8.9
	Net profit after tax and exceptional items	6.8	5.7

Contribution to National Exchequer in 1979

	£m
Repayment of loans	10.8
Interest paid	6.7
Tax paid	7.8
Total	25.3

A copy of the Reports and Accounts 1979 is available from the Secretary, British Transport Docks Board, Melbury House, Melbury Terrace, London NW1 6JY. Tel: 01-486 6621, ext. 6261.



Packing quality into British industry's survival kit

Christopher Lorenz on a new study which examines the reasons behind the UK's industrial decline and offers a recipe for recovery

"In the industrial leagues of the EEC and OECD, Britain has been relegated to the Second Division. A major reason for its industrial decline has been its inability to introduce commercially viable new products and processes, and its consequent inability to compete not only on the basis of price, but also

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of quality. Technical innovation is an essential feature in competitiveness."

This depressing analysis represents the central conclusion of a major new study of Britain's industrial and economic performance, to be published tomorrow by Mac-millan*. The purveyor of gloom is Keith Pavitt, senior fellow of the Science Policy

balance and achieving co-opera-

management of people, proper management of resources, etc.

The point about the manage-

ment of innovation is that it

application of these skills, since

it involves the management of

change and change in all the

functions of the firm, from

R and D right through to

marketing and sales and beyond.

not restricted to high-tech-

nology industries, chemicals,

machinery and durable con-sumer goods. The capacity for

traditional industries to survive,

in the face of competition from

more sophisticated design, pro-

"A recent report on the

ing, financial control, production

areas listed are all ultimately

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priation

"The need for these skills is

places greater demands on the

Research Unit (SPRU) at the University of Sussex, who is the book's editor and its coauthor, with several of his colleagues at Sussex.

If Britain's industrial decline is to be halted, let alone turned round, the study argues, industry must reverse its policy of recent years, and maintain a steady and ex-

research, development and innovation. Governments should mobilise a wide range measures, it suggests: "neither Thatcherite policies of non-intervention aid cuts, nor the radical alternative of across-the-board protection, will get to the roots of the The 353-page volume is unpared with the welter of recent reports on British manufacturing, from sources as diverse as the Cabinet's Advisory Council on Applied Research and Development (ACARD), the Confederation British Industry, the National Economic Development Office, and the Finniston Committee on Engineering

work and, in particular, the

pilot stage, and certainly before

commedcial launch. Evidence

the UK as a consequence of the

Not only does the SPRU study present analyses of the performance of 11 different industrial sectors, but it links these to chapters on various aspects of Britain's overall industrial performance com-pared with other countries over more than a century. It analyses in depth the close relationship between innovation and export competi-

tiveness and it challenges the traditional economists' view of immovation as a con-sequence of economic growth; instead, it argues that innovation is also one of the funda-mental causes of economic growth,

The book concludes with advice to government, includ-

innovation, so as to help close the productivity gap between Britain and its EEC partners by the end of the century. And it presents a concise compendium of suggestions of how industrial management can remedy the most important deficiencies at company level. In edited form, this advice is reproduced

Six vital ingredients in successful innovation

THE NEED for greater innovation in British industry is by no means confined to high-technology sectors. Many tradithe face of intensifying inter-national competition if companies within them develop more sophisticated skills in design, production and market.

ing.
This is one of the most fundamental implications of the tensive and depressing sector. shifts. The organisation of sector analysis contained in effective marketing, selling. extensive and depressing sectorthe SPRU book (see above).

In a chapter directed specifically at top management Dr. Roy Rothwell emphasises, however, that Britain's weaknesses in parts of British industry which innovation are neither universal

to the steady commitment of the ment is lack of professionalism. chemical industry to innovative activities - and its consequent can upset even the best-laid international competitiveness. schemes, and while no firm is He also praises "the consider immune from major changes in able British achievement in the economic environment, the technical innovation and com- success or failure of innovations petitiveness in coalmining and of firms rests squarely on

In general, however, consider- management. able changes will have to be made in management attitudes the successful management of and actions if other sectors are innovation are in no way

Rothwell suggests. First of all, British managers must recognise the problem, and 'tion between the different develop the will to innovate. corporate functions, This means that managers must lengthen their time horizons, he balancing immediate against long-term viability

There also needs to be more balance in top management For example, in the textile industry, a growing number of accountants in top-level decision-making has in some cases resulted in a neglect of investment in technical development. In the mini-computer industry, a preponderance of engineers in top-level decision making has led to over-engineer-

A balance in top management skills is most likely to lead to a balance of functions, the achievement of which is so crucial to the firm's long-term success. More qualified engineers are needed in the British engineering industry, UK Government (Footwear especially—as in West Germany Industry Study Group, 1977) and Sweden—in positions of concludes that the industry has responsibility. management There is a concurrent need for and product strategy, design more management training to and design management, exportqualified managers

with a high level of competence. planning and control . . . The "In many instances, the makeability of Britis begoods 'makeability' of Britis bgoods the responsibility of company seems to be dismally poor. This is probably related to the relative low level of smallscatters. The solution . . lies in strengthentivel low level of qualifications ing of management generally.

of British production engineers. "While much of British and to poor communications industry has been run by between R & D and design, on managers possessing few, if any, the one hand, and production on

"Probably because of an his- industries have been controlled torical bias towards once-captive more often by trained managers Empire markets, many British firms have failed to establish skills. It might be that, as in

marketing networks to discover users' needs and have instead clung to a traditional 'we know best' attitude towards the attitude towards the market. As a result, "they have failed to detect often obvious demand distribution and after-sales service networks in carefully selected areas will be crucial to the future success of those currently lack them. or irremediable. The root of many of the In particular, he pays tribute problems of British manage-While chance and uncertainty the shoulders of the firms' "The factors associated with recover and survive, Dr. unique. They are all general thwell suggests. management skills — holding a

Contrasts in Britain's international competitiveness: chemicals and mining machinery on the plus (left), with cars and motorcycles generally telling their own sad story

industry the days of the amateur are numbered."

So how should companies improve their general "professionalism," and in particular they produced, and of the pro-their management of innova- cesses by which they produced tion? Drawing on a wide range them. . . . They were, therefore, efficiency may be impalred in of American, British and other European studies over the last 15 years, Rothwell concludes that six factors are especially crucial to successful innovation:

the newly industrialising countries, will depend on their ability to adapt and to develop CORPORATE COMMITMENT TO INNOVATION

This implies recognition of British footwear industry by the the importanceof innovation in international competition, and the commitment of sufficient outline the firm's response to

"The marketing function and UK trade has sufficient outline the firm's response to
resources to innovate activities. them," Rothwell comments close contact with users are in the advanced economies, but US company. In contrast to the Little Essex Street, London,
resources to innovate activities. them," Rothwell comments close contact with users are in the advanced economies, but US company. In contrast to the Little Essex Street, London,
resources to innovate activities. them," Rothwell comments close contact with users are in the advanced economies, but US company. In contrast to the Little Essex Street, London,
resources to innovate activities. therecord of the UK mechanical engineering industry, whose innovative commitment has been declining rapidly compared with that of its main competitors-as has is trade perform-

ance. The corporate commitment "Successful innovating firms in must include the realisation that, whether in mechanical engineering or elsewhere, the decline in innovation "cannot formal technical or managerial be explained away as an inevitskills, our major competitors' able and automatic conse-quence" of slower rates of economic growth, argues Rothpossessing a range of such

> "There is evidence that, in a number of areas, British term viability for short-term profits." He cites research which found that Swedish industrialists, for example, give greater priority to long-term growth and investment than their UK counterparts. And he also points to the 1975 report by the Boston Consulting Group on the failure of the British motorcycle industry. This also found an emphasis on short-term profitability at the expense of longer term aims, so that
> "... profitability, the central
> short-term objective to which these policies have been directed has in fact deteriorated in the longer term to levels that now

call into question the whole viability of the industry." Again, a recent report on the British machine tool industry reached similar conclusions: "The UK industry's failure to supply British firms with the NC (numerical control) machine tools they have increasingly been wanting to instal is a direct consequence of the short-term strategies the machine tool firms pursued in the 1960s. British machine tool firms were

English cricket, in British most vulnerable to major trade quires efficient development recessions because they were, work and, in particular, the comparatively, technically back-elimination of technical defects ward - both in terms of the preferably by the prototype or designs of the machine tools cesses by which they produced (in the) book suggests that such unable to compete effectively against their chief international .same .. duality .between what rivals. . . This technical "in- might be described as the scienefficiency" can be accounted for tifically and technically overby the failure to invest in re- endowed high-technology search and development or in tors, on the one hand, and the new machinery..." technically starved sectors of "It does, of course, help firms mechanical engineering, on the

faced with such drastic changes to have corporate and product development strategies that 4. MARKETING AND deliberately explore future USER NEEDS opportunities and threats and before turning to his second key critical to successful innova-characteristic of technically tion," argues Rothwell. characteristic of technically progressive companies.

INNOVATION AS A CORPORATE-WIDE TASK: NEED FOR BALANCE

general out-perform unsuccess-ful ones in all functions. Success generally does not depend on doing one or two things brilliantly, but on doing everything competently and in a properly balanced and co-ordinated manner.

"In the UK, there has been a failure to achieve a balance among the different corporate management has sacrificed long- functions, which may explain in part the relatively low produc tivity in British R and D activities. In the high technology sectors, there has often been too much emphasis on 'tech-nology push," to the neglect of production and marketing." This argument is enlarged upon in the book's chapters on the de-fence industries, nuclear power

and electronics. By contrast, in several of the weaker sectors — particularly mechanical engineering it has often been assumed that 'British is Best,' and that old designs, coupled with incremental change, are good enough. There has been a failure to respond to major technical advances made by foreign competitors. Tech-nology-push has been weak, phenomenon closely related to the small number of well-qualified engineers in the British engineering industries, in com-parison with those of other

3. EFFICIENT DESIGN AND DEVELOPMENT WORK "Successful innovation re-

countries."

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general failure in British industry to understand users' needs that great emphasis has been placed on the price of British goods, whereas quality is important in determining competitiveness. For example, British textile machinery producers ranked sales price greater importance than did the machinery users; machinery users, on the other hand, ranked overall running costs of greater importance than did machinery producers. Overall running costs are clearly related to reliability and to performance — in other words to technical quality. "In addition, there has some-

times been a failure to establish comprehensive marketing networks and to back up products with a high standard of techmical service (parts, spares, etc.). This has certainly been evident. in . . . some areas of textile machinery. The British motor cycle industry also failed to offer satisfactory after-sales sup-port for its products.

"By no means all of British industry has found itself unable or unwilling to adapt to changing market and economic circumstances. . . Coalmining machinery manufacturers have consistently updated the design and performance of their machinery to meet the requirements of the National Coal Board; the gas industry, using its considerable technical capability, showed itself capable of reacting quickly to adapt successfully to changed circum-

stances. "One reason for the failure of British management to recognise the need to updated products, and to make strenuous efforts to detect and meet changing user needs, is a heavy reliance on sales to the old Empire

'As a result of fairly easy sales in these once-protected textile machinery industry, for markets. UK management has example, one major UK firm often failed to see the need to discovered that one of its proupdate products and to produce ducts contained 50 per cent new generations of products. more labour input than the

face of strong competition, based on technically superior products, from other advanced nations.

"This was clearly the case in the weaving sector of the UK textile machinery industry, and it is mainly in the new areas of textile machinery (tufting, texturising), where there was no tradition of sales to the Empire markets, that UK firms have performed best. The UK forklift truck industry is similar. It is a post-war industry, which operates in a diversity of markets.

"In both cases, management has generally been aware of the need to produce goods of high technical quality, to provide customers with the goods they wanted, and to mount the right sort of technical operation."

GOOD COMMUNICATION

good internal and external communication: efficient communication links must be management falls a long way established between the functionally separate departments comparison with other countries within the firm, between the in Western Europe. "The pro-firm and outside sources of portion of graduates in managescience and technology, and rial and technical functions is between the firm and customers. This requires open-minded, consultative and nical qualifications of graduate outward-looking style of managers. management. Wtihin British firms,

important problem is the lack

communication between design and produttion. It is well known that productivity in the UK manufacturing industry is lower than in major competitor countries. This is related not only to the relatively low level of adoption and use of modern production machinery in the UK, but also to an inability of British management to link R&D and design to production. In the

with efficient series production in mind."
In the forklift truck sector,

Rothwell suggests, the 'make-ability' of U.S. trucks is greater than that of their UK equiva-lents, because the U.S. com-panies linked design much more closely with production. "The U.S. firms were also more successful in incorporationg a level of flexibility into the mass-production sequences through some modularisation in production; they thus succeeded in obtaining the maximum variety in outbut with the minimum of components. Inflexible production sequences can pose a serious barrier to the incorporation of technical innovations; there is some evidence of this happen-

6. MANAGEMENT: SKILLS AND PROFESSIONALISM

ing in the UK tractor industry.

"The establishment in a firm of all the above features of successful innovation cannot be divorced from general management skills, from the existence of technically qualified managers at all levels of the firm, or from a deliberate policy of manage-Successful innovation needs ment recruitment and training. As other chapters of the book point out in detail, British lower, as are the status of engineers and the level of tech-

> "One sector stands out in contrast to this general picture: the British chemical industry, where a high percentage of managers are graduate scientists or engineers. This is consistent with the relatively strong com-mitment of the British chemical industry to innovate activities over the past 10 years. These factors are much more widespread in Germany (and neighbouring countries with similar traditions) where graduate engineering training and technical excellence are given much greater weight by management

than in the UK."
Technical Innovation and British Economic Performance. Edited by Keith Pavitt. Price British markets as well, in the machine had not been designed Telex 262024

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ONS EXCHANGE

An idea behind its time

BY DAVID MARSH

Foot-Dragging has a special finance ministers to give the application in the field of green light to a scheme which, application in the field of monetary affairs. ThTis states that proposals for innavtions requiring a high degree of international consensus often start to pick up momentum only around two years after they should have been introduced, and about 12 months after they actually ceased to be necessary.

The law should be amply demonstrated at the meeting of finance ministers making up the interim committee of the International Monetary Fund in Hamburg this week. They will be holding another wearisome round of discussions on the IMF's long-running plan for a Special Drawing Right substitution account

Many participants, including several important officials from the host country, are clearly going to Hamburg aware that the SDR discussions may largely be a waste of time.

Alternatives

The idea behind the plan is to lower painlessly the inter-national reserve role of the dollar by offering diversi-fication-minded central banks alternative investments-bonds of practically limitless maturity issued by the IMF and denominated in SDRs.

The scheme aims to please everyone. The U.S. would not actually suffer the irritation of dollar withdrawals, since dollars exchanged by central banks for the new SDR assets would still be placed, this time by the IMF, in U.S. Treasury bills. Diversifying central banks would gain the advantage of an allegedly more stable asset. reluctant reserve currency centres — West Germany, Switzerland, Japan, the UKwould be shielded from disrup-tive diversification flows into

their currencies. Times have changed, how-ever, since the scheme was first propounded. The SDR account might have been of some use in 1978, when diversification out of the dollar had a plainly disruptive effect on exchange markets. In 1980, however, turbulence has been caused by flows into the dollar-set off by the Fed's hard money policy and the improved U.S. balance of pay-

BBC 1

† Indicates programme in black and white.

(ultra high frequency only). 9.35 For Schools, Colleges. 11.25 You and Me. 12.05 pm For

Schools, Colleges. 12.45 News. 1.00 Pebble Mill at One. 1.45

Heads and Tails. 2.01 For Scools, Colleges. 3.53 Regional News

for England (except London). 3.55 Play School. 420 The Space

6.40-7.55 am Open University

THE LAW of Institutionalised ments. It would be madness for hy providing an international subsidy to encourage reserve flows into the U.S., would actually prolong the run into the

> The last few weeks have brought increasing recognition that a multi-curracey reserve system can, under certain conditions, actually help stabilise exchange markets.

Germany, Japan and Switzerland recently have been only too happy to encourage reserve diversification out of the dollar, in order to prop up their currencies, and the U.S. has been building up substantially its own D-mark reserves through intervention to hold down the dollar.

The underlying fall of some \$10bn in Germany's reserves this year provides another reason why warmth for the SDR scheme may be lacking in Hamburg. The British Hamburg. Hamburg. The British Treasury, for one, has been banking on a big contribution for the account from the Federal Republic. But Bundesbank officials are now making clear that the availability of German dollar reserves has become much more limited.

Confidence

This is not the first time that This is not the first time that monetary reform proposals have advanced to the decision-making stage long after the immediate need for them has evaporated. The 1977 agreement to protect Britain from the surples of the stating from the surples of the sur the running down of the sterling balances was reached only once the pound was starting to become attractive again as a reserve asset. The IMF's Wit-teveen facility to help deficit countries was set up when Euromarket liquidity was becoming so great that IMF credits were no longer in strong demand. Both these arrangements, even if they were not actually implemented, were however, important purely in boosting confidence. The SDR scheme, on the other hand, would be of little use merely as a safety net. Now that the U.S. really seems to be running a tough monetary policy. the crutch offered by the substitution account can surely be

Sentinels. 4.40 Wildtrack. 5.05 John Craven's Newsround. 5.15

5.55 Nationwide (London and

South East only).

10.28 News Headlines. 10.30 "King Henry V," Part 2.

John Craven's Newsround. Potter's Picture Palace. 5.40 News.

6.20 Nationwide.

8.30 Lena,

9.00 News.

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Tom Jones.

thrown away.

The luxuriance of the cherry

a better formight for the spring blossom. No rain, no clouds: discovered this. the evenings have been luminosu and the folds of white flowers on the plum trees have stood out against the living

green of their young leaves. plum or the delicate pink of the almond. But none is so luxuriant as the cherry. I have by way of a start. Please do not plant any more

into streets and then spread like measles into the nearest front balustrading. gardens. The one called kanzan any considerate gardener. Its flowers are thick and sugary and the tree is stiffly shaped, like a cone turned upside down.

You may be more tempted by it this year, when its flowers could be seen against the clear blue skies which set it off rather better in its native Japan. I am not alone in thinking its colour harsh, but gardeners will often play safe when faced with a long list of names, let alone elves. with names like those in a Japanese export-drive. They choose the one they know, forgetting why they know it. I suppose, therefore, I may have ensured the survival of kanzan

by mentioning it at all. I say, I have gone and bought
Please think twice, also, before you decide to plant a flattrees were so well advanced and

top variety. When mature, they reasonably priced. I excuse my-before the fall of Ancient Rome, old specimen trees and early beginner's error of alternating are more common than you self, however, because they and in one Japanese temple-records of even older mes, it it with this white form because might imagine. Last week, I were the plain pink form of garden it is said that there is a may be right to derive them the local garden centre can self

I found myself with a dented motor-mower and no hope of having it mended without going to the black market and finding Any fruit tree will light up a foreman at home with as this time of year for you-pear, many spare parts as spare hours. He lived in one of those suburbs of the early 1950s whose bungalows would have two pleas to make on its behalf looked like packing-cases if their occupants had not prospered more than the designers of those heavy double pink had ever thought they ought to varieties which find their way and enlivened them with coachlamps and the wilder sort of

Some 30 years ago, down the is too much of a good thing for roadsides, they had planted any considerate gardener. Its lines of flowering cherries in varieties which never rise much above 6 feet, though their trunk thickens out to a wide diameter and their head of branches fans sideways to a flat 10 feet. Like the bungalows, these cherries looked as if they were still waiting for a second storey. Perhaps the neighbour-hood picnicked beneath them at sunset and sported like urban

> If I had any more room for new cherries, I would only plant white-flowered varieties, I told myself, but just to prove that, like you, I never do what

So much for my complaints.

the subhirtella variety.

to be re-named phewhata- of Marcus Aurelius. scorcha as the longest-running recommendation of this column. Thetrouble is that it gives such long-running value. The light surprise. However, we tend to flowers open in late autumn, and graft it on to our own wild survive for a second show after all but the sharpest winter its height. There is no fronts. They then sprout short stems and come back for a third

specimen nearly 100 ft high, The Japanese prunus subhir- which the Japanese tree-experts tella, in its autumn and winter reckon to be over 1,800 years flowering form, will soon have old, making it a contemporary

> We have known it in Europe for only 90 years, so our grand-children may be in for a graft it on to our own wild white cherry, which may cramp particular need to do this as subhirtella roots freely from

GARDENS TODAY

BY ROBIN LANE FOX

attempt among the young leaves cuttings and would grow to its in April. when the spring full stature if you pinched a weather is as mild as this year's They are a superb variety for cutting and using indoors, and cman be grown almost any-

where as a bush or tree. Even-tually, they are 20 feet tall and up to 15 feet wide, but they can be clipped and shaped in late spring, and will stand un-

of which we have records. It

sucker from a friend. I have bought myself two trees of the so-called rosebud cherry, sub-hirtella rosea, which strikes me as the simplest and freshest pink cherry of all.

our own wild cherry, which is just as venerable as anything usually well against a dark kept alive in a Kyoto background of evergreens or monastery. The wild gean or shaded walls. For value, this is the best on the market.

It is also the oldest variety remains. Nobody believes that this tree could have survived turn sup in the East two years that era, so when we see very

have a bright future. This year, apart there is impressive evidence avoid the more formal sorts of appear to be overlooking our own native cherry as a suitably British tree for any local lime-

stone landscape. A double large-flowered form grows eventually into a very scape. wide tree, which extends over 20 ft in its maturity. If is a noble plant, well able to hold its own in a British avenue or park, where it will reach 40 ft or so, and stand out for the

silvering on its mature trunk.

The leaves are rather large. and might lead you to suspect out of season that they belong another fat and inappro-Among the whites, we have priate Japanese pink form. Their colour, however, is a good fresh green.

from the Roman imports, you them both immediately. brought back into this country The double gean is a huge tree, when our weather had warmed even bigger than kanzan, and would collide ramously with it, In the 1980s, this tree should unless it was spaced very far

It is odd to think that a centhat self-help plantings of trees tury ago only this big white are springing up all over cherry would have alerted former sites of the elm in our Victorian gardeners in Britain country villages. They tend to to the family's merits. Even then, the double form was not tree with heavy blossom, but known. Wordsworth never saw our best modern blossom, From the 1890s only dates the arrival of the large-flowered forms from Japan, which have marked one of the most dramatic changes has been selected from it, and in our recent gardens' land-

> In years when Japanese courtiers were growing 120 sorts of cherry in one garden for their own blossom-viewing soirées. British gardeners had two or three, no more, and were simply drinking sack in the ale

Perhaps that says something about the different focus of our poems on spring, their concern for the fresh green leaves on trees and hedges and their eye for the smaller madow flowers. The next weeks will see it at The suburb and the cherry its best, if you want to test my judgment: it is a late-flowering cherry, better seen in May than European townsmen. If you use April. If you are still set on your judgment, there is still a harsh pink kanzan of your much pleasure to be had from this blossom's finer forms.

CINEMAS

CLASSIC 1: 2, 3, 4, CHELSEA, King's Rd. \$52, \$505, YI. BOARDWALK (AA). Props. San. & Wit. 2,00, 3,40, 5,55, 8,40 and a result of cartunder BAD TIMING CO. Props. Sun. & Wit. 2,20, 4,55, 8,05, 3; Onar Sharif BOCTOR ZHIVAGO (A). Props. Sun. & Wk. 2,25, 7,10. 4 LA CAGE AUX FOLLES (AA). Props. Sun. & Wk. 2,25, 7,10. 4 LA CAGE AUX FOLLES (AA). Props. Sun. & Wk. 2,45, 5,15, 5,10.

CLASSIC 1 2, 3. Haymarket (Plocadily Circus Tube), 01-839, 1527, 1840 Tubillo (X). Progs. 1.00 (not Sun), 3.05, 5.40, 8.10, 2. FINAL DAY! Dudley Moore 10' (Q), Progs. 1.00 (not Sun.), 3.05, 5.40, 8.20, 2.50, 5.40, 8.20, 2.50, 5.40, 8.20, 8.

CO. Props. 1.00 (not sur.) 3.05, 5.40, 6.15, 6.10, 6.15, 6.1

CLASSIC. Lelcester Square. 01-930 6915. Okret. Reed THE ERODO CO. 1.05 (not Sun.) 3.45, 6.20. 9.00. CRUEL PASSION OO. 12.05 (not Sun.), 2.40. 5.20, 8.00.

CURZON: Durzon Street, W1, 499 3737. GET DUF YOUR HANDKERCHIEFS (X). English Gries Progs. et 1.45 (not Son.). 3.55, 5.10, 8.30.

ODEON HAYMARKET (930 2728-2771). SUPERMAN THE MOVIE (A). Sep. perfs. 1,35. 4.45, 8.00.

ODEON LEICESTER SQUARE. (930 5111)
**ESAMER VS. KRAMER (A). Sep. perfs.
**DYS: Open Diy. 1,15 4,15 5,7,45, 41
**Sents. May Be Booked in Advance at Theatre. Seo Office or by Post.

DOEON MARBLE ARCH W2 (723 2011-2).

PRINCE CHARLES, Leic. Sq. 437 8181. Exclusive Limited Engagement RUDE BOY LOY. Sep. Perfs 2.45, 5.55. 8.45, Fri. Sat. Sub. 12.20, 2.45, 5.55. 8.45. Lte Show 11,20). Setts Bible. Life B. B.

STUDIO 1 & 3 Oxford Circus. 437 3300. Licd Bar. 1: 10° (X). Progs. 12.30, 2.45, 5.25, 8.05. Lip. Show Sat. 11.00. 3: THE DESK HUNTER (X). 12.45, 4.05 7.30. Lip. Show Sat. 10.50.

ART GALLERIES

CAMPBELL & FRANKS, 37, New Cavendis St., W1. RUSSELL FLINT. 10-30-5.30 \$43, 10.30-1.30.

COLNAGHI: 14, Old Sond St., London, WT. 01-491, 7448, IMPERIAL OTTOMAN TEXTILES, Until 23 May, Mon.-Fri. 8-30-6, Sats. 10-1.

FINE ART SOCIETY. 148. New Bond St., W1. 01-529 5116. ELLEN HOGAN.

GOILDHALL ART GALLERY, EC2. Society of Portrait Scuintors & Original Prints. An Ethon. Mon.-Set. 10-5. Until 1 pm May 2ad: Adm. Free.

JPL FINE ARTS. 24. Davies St., London, WI. 01-493 2530, EDOUARD VUILLARD 1864-1940. Drawings, Wipercolours and Pastels. March 19-May 2, Mon.-Frl. 10-6.

LEFEVRE GALLERY, 30. Brutos St., WI. 01-493 1572-73. An Exhibition of EDWARD BURRA Paintings from America. Mon-Fri. 10-8. Sat. 10-1.

MARLBOROUGH, 6, Albemáric St., W1. EDWARD SEAGO, 1810-1947. Paintings & Watercolours, Until 23rd April, Mon-Frl. 10-5.30. Set. 10-12.30.

MATHAF GALLERY, 24. Motombe St. SW1: Tel: 235 D010: Sectalists in 19th Century and Contemporary Paintings of ARABIA.

ROYAL INSTITUTE OF PAINTINGS IN WATER-COLOURS, Annual Exhibition, The Mail, SWI, Dally fine, Sen.) 10-5. Until April 27. Adm. 20p.

CLUBS

Backers hunt Guineas value

there are now clear signs that backers are looking for outsiders whose odds a place appeal more than the cramped price about the favourite.

Three colts whose odds have contracted sharply since Saturday as a result of ante-post trainer on Saturday. backers going for the top " place

RACING BY DOMINIC WIGAN

value" still available are Saint Jonathan, Posse and World Leader.

Rumours of Sain Jonathan's prowess over other middledistance three-year-olds trained by Barry Huls, were rife from the start of the campaign and

12.10 am Weather / Regional

All Regions as BBC-1 except

WITH NUREYEV down to Hills revealed some time ago either 54 or evens in the ante- that he has backed his colt post books on the 2,000 Guineas, at 25-1 for the 2,000 Guineas. In winning two races this season, the unbeaten Welsh

Saint, colt has earned some startling compliments: "The most impressive winner of the Thirsk Classic Triel since Nearula," said a Northern While Saint Jonathan's odds

have tumbled to a top offer of 8-1, the market move for Posse has been equally dramatic with that for World Leader only marginally less so. John Dunlop, who ran Posse

in the Greenham to see whether a tilt at the 2,000 Guineas was a credible proposition, must have been delighted with the Forli chestnut's showing at Newbury. Pat Eddery's mount was doing by far his best work close home and at the line was less than three-quarters of a

LONDON

length adrift off the far more experienced Final Straw.

Four days before, World Leader had pleased many in-cluding his trainer, Luca Cumani, with a bold effort in Newmarket's Craven Stakes. Despite little room manoeuvre coming out of the dip, World Leader weaved his way into third place behind Tyrnavos and Star Cumani believes World Leader has as good a chance as any

Latest 2,000 Guineas betting -54- Nureyev, 8-1 Saint Jona-10-1 Monteverdi, 12-1 Final Straw, 16-1 Tyrnavos, Posse and 20-1 World Leader.

of chasing Nureyev home.

EPSOM

2.00-Brewer's Green* 2.30—Son Fils 3.05—Borderline**

3.35—Effect

4.10-Barnet Heir***

4.45—Habadale

Weather Forecast. 6,20 Perty Politice Broadcast by the Scottish National Party. 10,30 Reflections. 10,35 Scots-port Special. 12,30 am North Headlines. GRANADA 11.50 am Cartoon. 2.00 pm Live From Two. 5.15 Mork and Mindy. 8.00 Granada Reports. 6.30 This Is Your Right. 12.00 The Odd Couple.

HTV 1.20 pm Report West Headlines. 5.15 Dick Tracy. 5.20 Crassroads. 6.00 Report West. 6.30 Youth Makes Music. HTV Cymru/Wales—As HTV West/

SCOTTISH

Today. 6.20 SNP Broadcast. e.s. Emmerdale Farm. 12.00 Late Call. 12.05 am Police Surgeon. SOUTHERN

1.20 pm Wostword Nowa Headlines.
5.12 Gus Honeybun's Birthdays. 5.15
Makin' 11. 6.00 Wostward Diary. 10.28
Westward Lete Nows. 12.00 The Entertainers: Annie Ross, 12.25 am Faith
For Life. 12.30 West Country Weather
and Shipping Forecast.

GRAMPIAN

9.25 am First Thing. 1.20 pm North
News. 5.15 Happy Doys. 5.40 Police
News. 6.00 North Toninht and Area

Calendar (Emley Moor and Belmont additions).

BBC Radio London

6.00 am AM with Bob Holness and Dougles Cameron. 10.00 Brien Hayes. 12.00 LBC Reports. 8.00 pm Jazz After Eight. 9.00 Nightline with Jemes Cameron talking about his memoirs. "Point of Departure." 12.00 LBC Reports Midnight, 1.00 am Night Extra. 5.00 Meming Music.

Music (S), 5.00 Mews, 5.05
Wasgoners' Walk, 5.20 Much Moro
Music (S), 6.03 John Dunn (S), 8.02
European Saccer Special, 9.30 Among
Your Souvenirs (S) (joins VHF), 9.55
Sports Desk, 10.02 Punch Line, 10.30
Rubert Great says Thanks for the
Memory, 11.02 Brian Matthaw with
Round Midnight, including 12.00 News, 2.02-5.03 am You And The Night And
The Music (S), 10.00 News, 10.05
RADIO 3

18.55 am Weather, 7.00 News, 7.05
Your Midweek Choica, part 1 (5), 8.00

RADIO 3

Meming Music, Capital Radio

Capital Radio

6.00 Greham Dane's Breakfast Show
(S), 9.00 Michael Aspal (S), 12.00

Bay, 7.00, 9.00 Today's News, 7.30,
News, 1-20, News, 7.30
News, 1-20, News, 7.30
News, 1-20, News, 10.05
Gardeners' Question Timo, 10.30 Dully
Service, 10.45 Story Time, 11.00 News,
11.05 Baker's Dozen, 12.00 News, 12.02

Pm You And Yours, 12.00 News, 12.02

Minute (S), 1.255 Weather; programmo

Sourcers Weather (S), 1.00 Meming Music,
Capital Radio

6.00 Greham Dane's Breakfast Show
(S), 9.00 Michael Aspal (S), 12.00

First Report (S), 1.10 Dave Cash (S), 1.00 Dave Cash (S), 1.

OPERA & BALLET

DUKE OF YORK'S. CC 836 5122. Sur. 18 May 7.30 VICTORIA DE LOS ANGELS in conversation with Aim Sewarrists. Audio-visual illustrations. Special questic Gerald Moore & Thuothy West. Booking Opens today.

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KINGS HEAD, 01-226 1915. Day 7. Show 8. Until Sat DREAM TOPPING presented by Jeremy Sandford & Philippa Finnis.

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W. End Box Office 110 Charing X Rd.
Prema from Ton't. Eves 7.30. Occas
20 at 7 Subs Eves 7.30. Occas
8.15 Nave's HAY FEVER. Cast
Includes Constance Cummings and John
Le Mesorier.
LYRIC STUDIO: Last Week! Eves 7.45
Shared Experience In Shakespeare's
CYMBELINE.

LYRIC THEATRE CC. 01-437 3585. Group Sales 379 6061. Ever. 8. West. 3. 545. 5 and 8. Grichard Briers. Paul Eddington in Middle Age Spread, COMEDY OF THE YEAR. WEST END THEATRE AWARDS.

NATIONAL THEATRE S. CC. bkus 928

TAILURAL ITEM STAR 3. LL BRIA 340
2257 FR (open stape): Ton't 7.30 AS
TO'ULKE IT DY Shakespeare, Tomor
OTHELLO (proscenium stape): Taday
(low price mai) 3.00 & 7.45 Iomor
7.45 DEATH OF A SALESMAN by
Arthur Miller,
COTTESLOE (small auditorium—all tits
2.3, Stogent standby £1.20). Ton't Tomor
8.00 EARLY DAYS a new play by David
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MICHAEL GOUGH, PHYLLIS CALVERT In BEFORE THE PARTY by Rodney Acklard, Story by W. Somerset Maugham Directed by TOM. CONTI, ARTS THEATRE. 01-836 2132. Tom Stoopard's Dirty Lines. Mon-Thurs 8.30. Fri. & Sat. 7,00 & 9.15. NOW IN 135 FOURTH YEAR. Lowest-priced best seats in Lordon. Plus 15p temp-member. Special terms for parties.

ASTORIA. CC. S. 01-734 4291. 01-439 8031. 01-734 4369. Mon. to Thurs. 8.00. Fr. and Sat. 6.10 and 8.50. FF. TOMBI. 55th GREAT YEAR. Lowest Priced Musical in the West End. Seats 52. 13. 54. LS. Reduced rate Group. 1004(inp. 01-638 3092 (special offers).

TYNE TEES
9.20 am The Good Word followed by
North-East News Headlines. 1.20 pm
North-East News and Where The Jobs
Are. 5.15 Balley's Bird. 6.00 NorthEast News. 6.02 Crossroads. 6.22
Northern Life. 12.00 North-East News.
12.02 am Vers, The Beautiful Spy. 12.32
Epilogue.

ULSTER
1.20 pm Lunchtime, 4.13 Ulster Nowe,
Headlines. 5.15 Cartoon Time, 5.20
Crossroads. 6.00 Good Evolung Ulster.
10.29 Ulster Weather, 12.00 Bedume.

naws. 1.00 The World At One. 1.40 The Archers. 1.55 Shipping forecast. 2.00 News. 2.02 Woman's Hour. 3.00 News. 3.02 Listen With Mother. 3.15 Aframoon Theetre (S). 4.00 Choral Evansong (S). 4.45 Short Story. 5.00 PM News Magazine, 5.50 Shipping forecast. 5.56 Weather; programmo news. 6.00 News. 6.20 My Music (S). 7.00 News. 7.05 The Archers. 7.20 For England and St. George. 8.30 Migrations. 8.45 File on 4. 9.30 Keleidoscope. 9.59 Weather. 10.00 The World Tonight. 10.30 Winnites (S). 11.00 A Book At Bedtime. 11.15 The Financial World Tonight. 11.30 Today in Perliament. 12.00 News.

London Broadcasting

ABC 1 & 2 SHAFTESBURY AVE. 838 8881 Sep Perts ALL SEATS EKBLE. 11 APOCALYPER NOW CX. WK. & Suz. 1.15, 4.30. 7.55. 70mm Dolby Stereo. 2. STARTING OVER (AA). WK. & Suz. 2.00 S.00. 8.05. CLASSIC ENTERTAINMENT Teledata 01-200 0200

HOENIX THEATRE CC S 01-836 2294, 5-5 8.0 Set 5.0 8 8.0 Mett, Wed 3.0 7m New Romantic Stape Model THE UMBRELLAS OF CHEBOURG. Group Sales Box Other 01-579 6061.

PRINCE OF WALES THEATRE, 930 8681. Credit card booldags, 930 0846. An Eyening with TOMNY STELLE and his Company. Eyes. Mon. Thur. 6350. Fri. and 93t. 5.00 and 8.50. Book. bow.

QUEEN'S. 01-734 1166. The bighty accurred production SEPORE THE PARTY transferred to APOLLO. See APOLLO for DUEEN'S. CC. 01-734 1166, Opens Wed. Apr. 50 at 7. Red. price press. This Saturday. April 25 & 29 at 6.0 Tom Courtenay, Freddle Jones in The Saturday. The new play by Rousid Harwood. Directed by Michael Shiot.

ROYAL COURT, S. CC. 730 174
HAMLET by William Shakesperre wi
Jonathan Pryce as Hamlet, Jill Benneth
Gertrude: Ergs. 7.30 sharp,
romendous Hamlet, It demands
be seen." S. Times. 730 1745

ST. MARTIN'S, CC, 838 1433. Evgs. B. Madinee Toes, at 2.45, Sats. at 5 & 8. Agatha Christie's Thit MOUSETRAP, World's longest-ever Run. 28th Year.

SADLER'S WELLS THEATRE, ECT. 837 1677. CC. 837 2856-7505. Until Sat., Egg. 730. Sat. 3 & 745 Horsey Operatic & Dramatic Society in FIDOLER ON THE ROOF. SAYOY THEATRE. 01-836 8888. CC. 836 8118. OMOR. Fri. 10-81. LESLIE PHILLIPS. JUNE WHITFIELD. SYLVIA SYMS and ANDREW SACHS NOT NOW DARLING. Mon-Thurs. 8.00. Fri. and Sat. 5.45 and 8.45. Red. price Fri. mat. Group bkgs. 839 3092. SHAW THEATRE 01-388 1394. National Youth Theatre is a new play THE VOLUNTEER by Michael Argitti. Evgs. 7.30.

BOOKINGS U1-839 3092 (special offers).

CAMBRIDGE, 01-836 6056, Credit care
accepted, 01-836 7040, Mon. to Fri.
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IN 1980, 2nd TRIUMPHANT YEAR.
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Barry discounts for 10 or more, 379
BEN 56056, Student Nurses, OAPS
Standby 21.50. 7.30.

STRAND, 01-836 2550. Evenings 8.00 Mais. Thurs. 3.00. Sat 5.30 and 8.30. LONGEST RUNNING COMEDY IN THE WORLD NO SEX PLEASE WE'RE BRITISH, Directed by Alian Davis. Credit can's 01-837 4143. Group sales 80x Office 01-379 6681. COMEDY THEATRE. CC. 930 2576. Mon.-Sat. 9.00. Mat. Fri. and Sat. 6.30. THE POCKY HORROR SHOW. Group Sales Box Office 01-739 6081. CRITERION, 930 3216. Bookings 379 6565. Group bker 636 3962. Evgs. 8.00. Sals. 5.30 and 8.30. Thurs, 621 3.00. PRICES MON-THUR. 52 52 64. NEIL SIMON'S COMEDY LAST OF THE RED HOT LOVERS, 6th NIL Month. STRATFORD-UPON-AVON. Royal Shake-sceare Theatre (0789) 292271. Tickes immediately available for RSC in ROMED AND JULIET testight (6.30) tomor (mat). Apr 28. AS YOU LIKE IT Agr 25. 26 (mat). May 5. Recorded booking into (0789) 65191.

DUCNESS TH. S. 01-836 8243. Gro sales 379 6061. Eves 8.00. Sal. 530 8.30. Thur. Mats. 3.00. MARIA AITKEN, MICHAEL JAYSTON IN NOC! COWARD'S PRIVATE LIVES. (0789) 69191.

TALK OF THE TOWN. 01-714 5651.

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LONDON'S GREATEST NIGHT OUT.
FORM 30'-COLVENING SIND DARCHS.
9.30 SUPER REVUE SUBSEY and in
cabaret at 11: IRIS WILLIAMS. DUKE OF YORK'S. CC. 535 5122. GLENDA JACKSON, 805E. A new play by Andrew Davies. Evgs. 8.00. Mats. Wed. 3.00. Sats. 5.00. VAUDEVILLE S. CC. 01-836 9988.
Gra sales 379 5061. Eves 8. Sat. 5.30
and 8.30. Wed. Mat 2.45 1AN OGILVY
SHELLA GISH. JAMES COUSING STRUCK. A new thriller by
Simon Grav.

FORTUNE, S. CC. 01-836 2338. Evgs. 7.30. Wed. 2.30. Sat. 4.30 & 8.00. DR. FAUSTUS. Cast includes JAMES AUBREY and PATRICK MAGEE. VICTORIA PALACE. CC. 01-828 4735-8. 01-834 1317. Ever. 7.30. Mats. Wed. and Sats. 2.45. ANNIE. Group Sales Sox URICO 01-379 5061. GARRICK, CC. 01-836 4601, Evps. '8.00 (Sharp), Fri. and Sat. 5.30 and 8.30, GARETH HUNT IN DEATHTRAP. office O1-379 5051.

WARRHOUSE, Dommar Theatre, Covere Garden Box Office 255 8058 RV 245 AMKESPEARE COMPANY. Even 7-36 Chekhor's Three SISTERS, trans. Richard Cottroll (Sold out).

WHITEHALL THEATRE, 930 7785, Raduced price previews May 8 9 Soedal Preview May 10, Paul Rayriew May 10, OPENS May 12, Paul Rayriew Mindhill. CC. 01-437 6312. Twice nightly at 8.00 and 10.00. Suns, 6.00 and 8.00. Paul Rayrinond presents RIP OFFI Hotter thus ever for 1980. The fifth great year.

WYNDHAM'S, S. 01-836 3028 CC blee GLOSE THEATRE. S. CC. 01-437 1592. Group sales 379 5051. Evgs. 8.00. Mat. Wed. 3, 5st. 5 & 8.15. Bervi Reid. Barry Foster, Peter Bowlet, Jan Waters in a new play by Peter Nicholas BORNI IN THIS GARDENS, Directed by Clisci GREENWICH THEATRE, S. CC. 858 7755. Evenings 8.0. Mat. Sats. 2.30 NEXT TIME I'LL SING TO YOU by James Saunders. Saunders.

HAYMARKST, CC. 01-930 9832. Red. crice prev 10a1 7.45. Opens Tomor 7.45, Subs 7.45. Wed. 2.30. Sat. 4.30 6.30. LEONARD ROSSITER PRUNELLA SCAES IN MICHAEL FRAYN'S MARE AND BREAK, Directed by MICHAEL BLAKE-MORE.

WYNDHAM'S. S. 01-836 3028. CC bkgs. 379 6565. Tickets only £1.80.64.80. 8vg. 8.00. Fri. and Sat. 6.00 and 8.40. Bet and Braces in ACCIDENTAL DEATH OF AN ANASCRIST.

EYE has outlived the others because of a policy of fair play, and value for money. Sport of 10-130 zm. Disto and top musicians, slamarous hostesses, exciting floor above. 189, Repent St. 754 0557. GARGOYLE, 69, Dran Street, London, W1, NEW STRIPTEASE FLOORSHOW "CLOSE ENCOUNTERS" 11-2-30 am. Shows at Midnight and 1 am. Mon-Fri. Closed Saturdays, 61-437 6455.

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RADIO 4

26 ACROSS 1 Living outside of Sandwich (53, 6)10 Scoundrel with Irish accent night (5) 8 Compunction beheaded (5) 11 Don't give way to opposition code (7) company (5, 4)
12 Crook having 2 go at Aunt ing point (6) Sally (7)

friendly bowling (5, 4)

13 Blacksmith gets round a chairman (9)
scrounger (7)

17 Fop managed church as a scrounger (7) 14 Girl extended play of stock farm holiday centre (4, 5)

20 Quiet individual did very

22 Beg English leader to natter

DOWN

4 Sailor's alternative inclina-

5 One who was grumpy to Snow-White (5)

tion capable of taking in (9)

all over the place (7) 25 Right to notice one state

becoming reformist (7)
27 Pardon soldiers g
assigned task (9)

well (5)

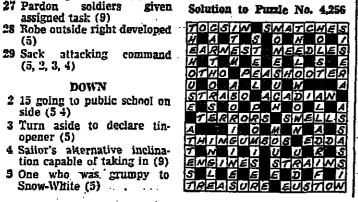
(5, 2, 3, 4)

side (5 4)

opener (5)

goodbye (7) 21 Cockney doctor's art in west initially promoted out of turn

London (6)
23 Afraid to lessen it's brilliance when turned up (5)



6 Ready to do battle with 7 Object to having a rough

9 Credit is repeated at turn-15 He claims to be academic

obedient follower (5)

16 Senior gains victors over 18 Club annoyed by foreign eastern drink (5, 4)

19 Behaved when Charles 19 Good food one ought to bid

criminal? (5) 26 Unearth mine (3, 2)

RADIO 2

7.05 pm Join BBC-2 (Snooker).

RADIO 1
(S) Stereophonic broadcast.

† Medizam Wave.

5.00 am As Radio 2. 7.00 Steve
Wright. 9.00 Simon Bates. 11.31 Paul
Burnett. 2.00 pm Andy Peebles. 4.31
Kid Jensen. 7.00 Radio 1 Mailbog. 8.00
Jaya Cooper. 9.50 Newsbeat. 10.00
John Peel (S). 12.00-5.00 am As
Radio 2.

VIII Radio 51 and 2-5.00 am With
Radio 2. 8.02 pm Listen To The Bend
(S). 8.45 Alan Deli with the Dance
Band Days. 9.15 Among Your Souvenirs
(S). 8.55 With Radio 2. 10.00 With
Radio 1. 12.00-5.00 am With Radio 2.

RADIO 2.

24 If the construction can be

RADIO 2
5.00 am News Summary. 5.03 Ray
Moore (S). 7.32 Terry Wogan. (5)
including 8.27 Recing Bulletin and 8.45
Pause for Thought. 10.03 Jimmy Young
(S). 12.03 pm David Hemilton (S).
2.03 Ed Stewart's Request Show (S)
including Racing from Epsom. 4.03
Much More Music (S). 5.00 News. 5.05
Wasgonners Walk. 5.20 Much Moro
Music (S). 6.03 John Dunn (S). 8.02
European Saccer Special. 9.30 Among
Your Souvenirs (S) (joins VHF). 8.95
Sports Desk. 10.02 Punch Line. 10.30
Hubert Gregt says Thanks for the
Memory. 11.02 Brian Matthew with
Round Midnight, including 12.00 News.
2.02-5.00 am You Amd The Night And
The Music (S).

The Wednesday Film: "Please Cove," starring Lena, starring Len Zavaroni.

News.

as follows:--

Cymru/Wales — 5.55-6.20 pm
Wales Today. 6.55 Heddiw.
7.15 Ask The Family. 7.40-8.30
The High Chaparral. 12.10 am
News and Weather for Wales.
Scotland—12.40-12.43 pm The
Scottish News. 5.55 Reporting
Scotland. 6.20 A Party Political
Broadcast by the Scottish
National Party. 6.30 Join BBC-1
(Nationwide). 12.10 am News
and Weather for Scotland.

12.10 pm Rainbow. 12.30 Camera.
1.00 News, plus FT Index. 1.20
Thames News. 1.30 Take The
High Road. 2.00 After Noon
2.45 Square One. 4.15 Michael
Bentine's Potty Time. 4.45
National Party. 6.30 Join BBC-1
(Nationwide). 12.10 am News
and Weather for Scotland. William Shakespeare, starring David Gwilliam and Alec McCowen, Part 1.

Nows Headlines.

(Nationwide). 12.10 am new and Weather for Scotland.

Northern Ireland News. 5.55-6.20 Schene Around Six. 8.30-6.20 Schene Around

East (Norwich); Look North (Leeds, Newcastle); Look Northwest (Manchester); Midlands

West (Plymuoth).

World Professional Snooker Championship. 4.50 Open Unievrsity.

8.30 Midweek Movie: "Pandora and the Flying Dutch-man," starring James Mason and Ava Garlner.

Herion in Britain. 11.30 Snooker. 12.15 am Close.

1063kHz/285m 1089kHz/275m

693kHz/433m 908kHz/330m & 88-91vhf stereo

RADIO 1

9.00 Spotlight on Northern Ireland Affairs, 12.10 am News and Weather for Northern Ireland.

Today (Birmingham): Points West (Bristol); South Today (Southampton): Spotlight South

6.55 Snooker. 7.30 Mid-Evening News. 7.40 Chronicle.

19.30 Spooker 10.45 Newsnight: Iranian

BBC-2 Scotland only-6.55 pm A Party Political Broadcast by the Scottish National Party.

9.30 am Schools Programmes. 11.55 Barney Google and Souffy Smith. 12.00 Cloppa Castle. 12.10 pm Rainbow. 12.30 Camera. Cymru/Wales — 5.55-6.20 pm

BBC 2 6.49-7.55 am Open University. 10.20 Gharbar. 11.00 Play School (as BBC-1 3.55 pm).
3.10 pm Snooker: Embassy

Radio Wavelengths

3 1215kHz/247m 8 50-32.5vht stareo

200kHz/1500pp 4 200kHz/150

9.00 Whicker's World. 10.00 News. 10.30 Midweek Sports Special. 12.00 Barney Miller. 12.25 am Close: Personal choice winth Dorothy Tutin. except at the following times:--Ytyt MvV

6.00 Thames News. 6.25 Help!

6.35 Crossroads. 7.00 This Is Your Life.

7.30 Coronation Street. 8.00 China: Acrohats.

1.25 pm Anglia News. 2.00 House-party. 5.15 Barney Miller. 6.00 About Anglia. 12.00 Police Surgeon. 12.30 am The Big Question. ATV 1.20 pm ATV Newsdosk. 5.15 Solwyn. 6.00 ATV Today. 12.00 ATV Newsdosk. 12.05 am Wheels. BORDER

1.20 pm Border News. 2.00 House-sround Wednesday. 6.25 PPB by the party. 5.15 Happy Days. 5.00 Look-SNP. 12.00 Police Surgeon. 12.30 am Border News Summary. **CHANNEL**

1.20 pm Channel Lunchtime News.
What's On Where and Weather. 5.12
Puffin's Birthday Groetings. 5.15
Makin' It 6.00 Report At Six. 10.28
Chanel Late News. 12.00 The Entertainers (Annie Ross). 12.25 am News and Weather in French followed by Eniloque.

BBC Redio London: 1458kHz, 206m & 94,9vhl

Capital Radio: 1548kHz 194m & 95.8vtd

London Broadcasting: 1151kHz, 261m & 97.3vhf

General Service except: 10.33 am au-11.55-12.10 pm F(alabalam. 1.20 Penawdau Newyddion Y Dydd. 1.25-1.30 Report Wales Headlines. 4.45-5.15 Ni A Nhw. 6.00 Y Dydd. 6.15 Report Wales. 6.30-7.00 Jukes of Piccadilly. 1.20 pm News Headlines and Road and Weather Report. 1.30 Take My Wife. 5.20 Crossroads. 6.00 Scotland Today. 6.20 SNP Broadcast. 8.30

All ABA Regions as London keept at the following times:—
(by MyV)

ANGLIA

1.20 pm Southern News and Weather.
2.00 Houseparty. 5.15 Mr. Magoo Cartoon. 5.20 Crossroads. 6.00 Day By Day. 6.36 Scene Midweek (South-East stead only). 12.00 Southern News Extra.
12.05 am Wheels.

Nows. 3.05 Your Midweek Choice, part 2 (S). 9.00 Nows. 9.05 This Week's Composer: Bax (S). 10.00 Oboe and Plano Music (S). 10.45 Music For Organ (S). 11.20 20th-Century Songs (S). 11.55 Northern Sinfonia Orchastra (S). 1.00 pm News. 1.05 Concert Hall (S). 2.05 Music Weekly (S). 2.55 BBC Concert Orchestra (S). 3.55 Music For Clatinet and Plano (S). 3.55 Music For Clatinet and Plano (S). 4.55 Nows. 9.00 Mainly For Pleasure (S) (1 and mone only from 8.20). 7.00 Music Now. 7.45 Virgil's Ecloques. 8.00 Rozhdostvonsky and the BBC SO Concert, part 1: Mozart, Schnittke (S). 3.49 Slx Continents. 9.00 Rozhdestvonsky and the BBC SO, pert 2: Bruckner (S). 9.50 Interpretations on Records: Schubert's String Quintet in C (S). 10.45 Michol Beroff piano recital (S). 11.45 The Scholars sing Samuel Webbe (S). 11.55-12.00 News.

5.00 am As Radio 2. 6.30 Rush Hour. 10.03 The Robbis Vincent Telephone Programme. 1.03 pm London Live. 3.03 John Toogood's Showcase. 4.30 London News Deek. 5.35 Look, Stop. Listen. 7.03 Black Londoners, 8.00 Gunners in Europe: Juventus v. Arsenal. 9.15 Question Time from the House of Commons. 10.15-5.00 am Join Radio 2.

THE OLD VIC. 928 7618, Youth Theatre April 21-25, OUT OF POCUS April 27 and 22 at 7.30 pm. April 27 and 23 at 7.30 pm. April 27 ard 7 30 pm. THE MERCHATT OF VENICE April 24 and 25 at 7.30 pm. April 26 at 2.30 and 7.30 pm. PALACE S. CC. 01-437 6834, Mon.-Thurs. 6.00, Pri. Sat. 6.00 and 3-40 JESUS CHRIST SUPERSTAR. Group pales 01-379 6061, LAST FOUR MONTHS. PALACE. S. CC. 01-437 8634. From Sept. 17. The Fabricus New Production of OKLAHOMA! OKLAHOMAI

PALLADIUM. CC. 01-437 7373. YUL
BRYNNER IN ROOGERS & HAMMERSTEIN'S THE KING AND I. Also SERTION
Virginia MCKENNA. HOTLINE 01-437
2055. Evs. 7.30. Mats. Wod. & Sal. 2.15.
Some good stats available for Wed mat



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Midland Bank Limited, International Division, 60 Gracechurch Street, London EC3P3BN, Tel: 01-6069944.



Conical Page Numerical control systems

COMPUTERS

Two new machines

system cost and ease of use.

A minimum system is comunits connected to a 110 mega- processing systems. byte integrated disc storage subsystem, console workstation, from September onwards, are diskette and printer the 9210 supporting up to 32 diskette and printer.

to support a maximum of one the 9220 offering additional megabyte of main storage, 40 ability to communicate concurworkstations eight tape units, rently with multiple hosts in BSC and/or SNA/SDLC protomultiple printers and card processors, eight communications lines and some eight times as will provide advanced networkmuch disc storage.

now in use by several thousand work growth. customers on such machines as Sperry Univac is at 65 Hol-the 90/30. It has been expanded, born Viaduct, London EC1P says the company, to include 1AB (01-236 1010) and Harris

ANNOUNCEMENTS of com- for operation either in a computer systems have been made puter room or a controlled by both Sperry Univac and office environment. But due to the use of emitter-coupled logic large scale integrated tech-Called System 80, the Sperry nology, floor space requirements machine is described as combin-ing capacity and facilities reduced. Prices start at about generally associated with £31,000 rising to about £52,000, larger mainframes" with low with five year agreement monthly rentals extending from £658 to £1,080.

Announced on the same day posed of central processor with was the Harris Systems' 9200 262k bytes of main storage, and family, a new range of micromicroprocessor - based control processor - based information

First two models available But this is field upgradable 3270 family compaibility, and

Architecture of the machines ing abilities and allow for the Software is based on the com-modular addition of new pany's OS/3 operating system functions as required by net-

the information processing requirements of the 80s.

System 80 has been designed 4XD (0753 34666).

METALWORKING

BAD NEWS always makes the best headlines, which is why a threatened walk-out and the a threatened walk-out and the been poor response from British contract machine shops presence of hecklers created suppliers, leaving the field wide employing 20 to 30 people, and another newsworthy day for the Prime Minister when she visited one of two Hampshire factories last Friday.

A few hundred yards away, the raising of champagne glasses of the entire workforce of another company when Mrs. facilities and equipment. Thatcher opened a new factory extension for the only British manufacturer of numerical tool industry, Posidata, Rankine Road, Basingstoke (056 52741).

Two entrepreneurs - Jeremy Fermo and Bernard Gingell — founded the company in 1972, which has now become a £31m concern. It has been entirely self-financing and has developed its own technology as well as creating engineering teams in hardware and software.

America and Japan may dominate the UK market (Fanuc of Japan claims 60 per cent of world sales) but the British runner is able to secure a growing share of the home market by establishing a major British presence at home in the face of aggressive overseas competition.

When Posidata started in business eight years ago, rela-tively few machine tool makers offered numerically controlled versions of their milling machines, lathes, etc., but the reverse is true today. Also at that time, Plessey was the major British supplier-now this company uses systems from

however, the British company good news was endorsed with is producing 30 systems a month -hence its recent investment of over £1m in new factory

This outlay should result in trebled production potential so that machine tool makers here control systems for the machine now have the choice of homegrown systems instead of accepting products from overseas suppliers.

> Detailed engineering is vital to the integration of numerical AN IMPROVEMENT over the control to a machine tool and its electronic to mechanical interfacing. Thus, investment methods is offered by 3M with has also strengthened a large service department whose engineers carry a wide range

> in the first integration of the control system to the machine tool, and every installation at claimed by 3M, so that lables the premises of an end-user will made from the stock give the the premises of an end-user will be supervised by a Posidata commissioning engineer. Response time to a user's

is said to be typical. Although nationally known companies and government establishments are established

repeat-order customers, by far Berkshi the largest percentage of instal-58274).

Despite the growing demand lations is with small machining/ for these systems, there has engineering companies and subopen to American and Japanese often less. Level of investment domination. Despite the intensity of very high, and repeat orders foreign, overseas competition, from these are frequent. The company is now part of

> the Dana Corporation of DEBORAH PICKERING

MATERIALS Makes good

direct marking of product containers by screen or hot stamp its Clearmark transparent roll label stock.

The stock is manufactured of technical test equipment and spares—worth around £4,000 to topcoated to provide good each service engineer.

The company's larger customers have a resident Posidata engineer who provides help in the first integration of the liner. liner.

impression of direct printing on to the bottle or other surface. The material also die-cuts very problem is rapid and effective— cleanly and the acrylic adhesive a 24-hour SOS is very rarely is particularly suitable for use exceeded—and same-day service on glass, coated metals, treated polythelene and polypropylene.

More from Industrial More from Industrial Specialities, 3M United Kingdom, P.O. Box 1, Bracknell, Berkshire RG12 1JU (0344 COMMUNICATIONS

Improving the service

MAINLY KNOWN for its semiconductor and circuit high left to dial every number in the speed testing equipment. Teradyne is now poised to attack the European PIT market for advanced telephone line testing entipment

on the results of experience faults, allowing service managegained in the U.S. where it has been offering the equipment for some time: a 15 to 20 per cent saving in fault clearing time on subscribers' lines and a 20 to 25

is to get to the impending shown. faults before it becomes evident to the subscriber.

Teradyn'es system is called 4-Tel and is based on the use of a service area computer (SAC) which can communicate over trunk lines to a number of exchanges at which line testers are installed. Communication between the two types of unit is digital so that the test results obtained on lines radiating FOUR MORE introductions of The fourth unit, DCB 19200 from each exchange to subscribers are not affected by the distance between computer and tester.

Testing can be conducted manually at purpose designed terminals with simplified keyboards some 10 of which might be connected to the SAC in a typical arrangement at a repair service centre or testing can be automatic.

The exchange-based testers are able to carry out a variety of tests looking into each subscriber's line, and do so at very high speed-about 600 measurements a minute involving impedance, resistance capacitance, current and so on.

Thus, overhight, 4 Tel can be group of exchanges that it serves, running a series of diagnostic fests on each line as it comes up. A printout is pre-It will base its sales campaign vided each morning showing the ment to act immediately and dispatch the right kind of team to the right place. The equipeach line, so that if a subscriber

> region of £5 per line, and such equipment in Europe,

wrought metals. 'Mi Limited, Bimsingham, England ment also stores the history of its equipment is a long way per cent reduction in the number of customer trouble reports. has been having persistent by any of the established suptree of the equipment trouble the extent of it will be plies to PTTs in Europe. The Likely cost to a PTT is in the equipment in the UK

for building products,

general engineering,

heat exchange, fluid power,

zip fasteners, refined and

Teradyne admits that it has a Weybridge, Surrey KT12 9XB hard task ahead of it in selling (Weybridge 51431).

On the other hand it believes company says that it will, if Teradyne is at Queens Road

Data transmission

modems (modulator/demodula- UK is a synchronous and asyntor units) for data transmission chronus baseband modem that

bits/sec CCITT device for use on Post Office leased lines and offers full duplex on a pair line, with dial up facilities on non-Post Office exchanges and lines.

lines and public switched network operations meeting various Crowhurst Road, Rollingbury, CCITT requirements between Brighton, BNI 8AN (0273 600 and 2400 bps.

over phone lines have been operates at 600, 1200, 2400, 4800 launched by ITT Business and 9800 bps and may be used systems.

One of them, the 1161, is a 300 to operate at unusually long distances, this modern can produce the standard can be s distances, this modem can pro-duce large savings in the use of high cost, high speed voice band modems and provides users with complete flexibility. ITT reports that its total sales

Models 2084 and 2082 are for of moderns world-wide has now se on leased two or four wire passed the £8m mark More from Lion Buildings. ENTERNA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA

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• SECURITY

Screens the surroundings

NEWLY DEVELOPED by each it will-be shown on the Chubb Alarms is the 8400 micro-screen. processor-based alarm monitor- A different pattern of alarm ing and control system which monitoring can be provided at provides in one desk-top unit a night automatically and in addiscreen display, printer and key- tion, alarms can be made to

multiplexing system to allow monitoring and control for up to mit command signals. 500 devices wired to provide Use of one or two six digit intruder detection, fire detection alpha numeric passcodes enables tion or the monitoring of build a supervisor to obtain informa-

and effectively on the screen activations, guard tours and and a useful additional facility displays to the needs of each is the watchman's patrol check. protected site or building. Up to 100 patrol stations can be Chubb Alarms programmed in any number of Hersham Road. different routes and timings and Thames, Surrey KT12 1RY

summon police or fire brigade Based on an LSI 11 micro, the assistance. Sensors can be de-equipment uses a high security activated from the keyboard which can also be used to trans-

tion from the system, or tailor Alarms are reported simply the time schedules, circuit de-Chubb Alarms is at 42

Walton-onas the watchman checks in at (Walton 43851).

Intruders are seen

tion zones are created in a leaves any of the protected passive infra-red detection zones his natural infra-red system from Carters, by the use (heat) emission will activate use of a multi-segment lens the detector.

Two lens assemblies have been introduced, easily intertion facility. Removal of the changeable from the front of units cover automatically the receiver unit. A 12 zone switches on a lamp which can lens gives protection over an be seen glowing red only when ares of 30 x 30 feet with six the installer is standing in one short range and six long range of the protected zones. Thus, zones. A 150 feet long-range he can walk about, looking at pattern has long, intermediate the lamp, and precisely and short-range zones making it delineate each zone. and short-range zones making it particularly suited to protecting corridors, aisles and passage

A NUMBER of different deter. When an intruder enters and

instal by means of a zone loca-Carters is at Sycamore Avenue, Burnley, Lancs BB12 8QR (0282 27911).

VENTILATION

Swede's UK market bid

double-glazing at home and good-or even adequateventilation and air conditioning considered almost a luxury in these islands.

Intense activity in warming our immediate ambience is now highlighting another un-foreseen hazard (particularly on the domestic front) in that over-insulated and excessively heated premises can lead to the problems of damp and rot.

Average concession to ventilation in homes, pubs, restau-rants and offices, is the obligatory extractor fan cut into a window. Where this is lecking, opening a window is the instant answer. Out go bad smells, musginess and, of course, dearly paid-for heat with the dissipation of valuable

The Swedes have always had to be more energy conscious than we and because their winters have a head start on ours, they are more stringent in heat requirements in any environment. At the same time, proper ventilation and air conditioning has been a natural. must with their forte of heat

All the known world is now energy conscious but AB Svenska Flaktfabriken concentrates intensely on recapturing heat, and for over 60 years has been involved in the fields or air and g25 .. treat-ment environmental control,

Its air handling products are designed to provide the right amount of air, at the right temperature and in the right places.

Some of the latter have been

LONG INURED to a cold in use in the UK for more than climate, we are nevertheless 30 years, yet over 50 UK just now busily insulating and engineers, architects, and engineers, architects and property developers (and an FT watchdog) were invited to see, in Sweden, a segment of the company's systems against background of expertise.

Why should we buy and import supplies of air handling. ventilation, etc., equipment from so far across the sea? Quality, performance, durability, was the answer from the ICI man who had lived with Flakt products at ICI, Wilton, Cleveland, for over 25 years. First UK installation undertaken was in London at Millbank Tower in the early fifties -currently, its imprint is wident at NatWest Tower, the bank's Goodmans Fields com-plex, Home Office at Queen. Anne's Mansions London, CEGB, Bristol, and Wiggins Teape, Basingstoke.

The relentless, high-powered three-open-days exercise in Stockholm, Norrhoping and Jonkoping did more than blind existing and potential customers with technological ingenuity it spelled out a spearhead for the UK end of Flakt. It is based here at Staines

House, 158 High Street, Staines, Middx (Staines 57221) and, although it has established its UK specifiers, it is desirous of taking a larger share of the general cake in air handling. ventilation, etc.

Concerned that its UK image is one on a par with that of ment environmental control.

industrial drying, air conditioning, and what it calls market Flakt in Britain apart, "comfort" ventilation for factories, offices, stores, hospitals, and Toled World customers is home and public buildings. sending out its specialist sales-men into a wider field.

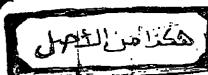
Although a technological trading house primarily for production and sales of equipment it Whether for the correct drying also develops, designs, installs of industrial products, such as and services and, because it has of industrial products, such as any services was, accounter to pulp, paper and grain, trans the capacity to undertake conporting waste and other tracts calling for the delivery materials cleanly and efficiently, of complete plants, it assumes or recapturing energy in the tile functions of a contractor, and that would other the functions of a contractor. form of heat that would other as well as an equipment taken wise be lost, it seems to offer for with technical process to

DEBORAH PICKERING



FINANCIAL TIMES SURVEY

Wednesday April 23 1980



MARKET PULP PRICES

Annual average prices of bleached softwood sulphate pulp over a 15-year period

World Paper and Pulp

Many of the world's paper and board producers are enjoying improved profits and some major investment projects are planned. In Western Europe, in particular, the overall market remains bouyant.

A new mood of optimism

By William Hall

THE WORLD pulp and paper industry has entered the 1980s in a very uncertain mood. Energy costs have been rising sharply and everyone is talking about the imminent recession—yet the demand remains surprisingly buoyant in most of the world's major markets.

In the opening monhs of this year, fairly substantial increases in the prices of market pulp, newsprint and kraft liner were made to stick, and further price increases are possible before the year end.

The major North American and Scandinavian mills are still running at near maximum but the Canadians, and capacity, stock levels are, in many cases, close to historically biggest market pulp producers, low levels and substantial new capacity is scheduled to come on fist. stream in areas such as newsprint and lightweight coated paper production.

Is the world paper industry However from the spring of having a last fling before it 1978 onwards, market pulp lurches back into another major. recession? Certainly, there are similarities between the current situation and that existing of the year they have increased shortly after the sharp rise in still further. Meanwhile, oil prices in 1973/74.

major paper producers are better placed to weather the

navians, in particular, are not going to make the same

Although only ten per cent or so of the world's total wood pulp comes onto the open market, the price of bleached sulphate pulp (the main type of market pulp) is watched extremely carefully by every-one involved in the paper industry.

For those countries without huge integrated pulp and paper mills, market pulp (and wastepaper, for that matter) is the lifeblood of the paper industry. After the last sharp rise in oil prices, when the world economy was falling into its deep recession, the Scandinavian pro-ducers tried to use their dominant market position to prop up the world price of

market pulp.

For a while they seemed to be succeeding and the price averaged around \$415 per tonne through 1975 and 1976. However, stocks were building up and by early 1977 there was to increase its market pulp around 3m tonnes overhanging

the market. Then came the price collapse. By early 1978, it was down to \$310 per tonne, at which level the low cost U.S. producers were just about breaking even were losing money hand over

The sharp drop in the pulp price led to severe financial hardship for many producers. prices started to recover. In 1979, they rose by an average 29 per cent and since the turn Norscan stocks (North Ameri-However, there are grounds can and Scandinavia account

for believing that the world's for four-fifths of pulp exports) have dropped to about 0.7m tonnes where they represent coming recession, than they just over a fortnight's produc-were last time. The Scandition—half "normal" levels.

PAPER & BOARD

PRODUCTION—1979			
m. tonnes		Annual growth	
U.S.A.	64.7	5.0	
Japan	17.9	8.3	
Canada	13.5	1.6	
Germany	7.4	8.0	
Sweden	6.3	10.2	
Finland	5.7	11.6	
France	5.3	6.0	
Italy	5.0*	11.5*	
U.K.	4.2	1.1	

Source: individual country

Estimate.

Part of the improvement in pulp prices has been offset by general weakness of the dollar for much of the year. Nevertheless, Finland was able exports by 21 per cent last year and in value terms they were

over 50 per cent up. For the first time for several years, the Swedish producers have started to make reasonable profits again. Liquidity has improved and debt has been reduced. In the U.S. the net income of the leading paper companies in 1979 rose by 34 per cent according to Citibank. This was well above the average for manufacturing industry

Although not all the statistics bave been published yet, it looks as if world paper and board production rose by between 175m tonnes and 180m tonnes. World wood pulp production, which is growing more was probably of the order of 130m-140m tonnes. This year output will prob-

balance, however, the world paper industry is expecting the Sweden's nuclear energy prorecession to be a much milder version of the previous one, and

from 1981 growth should be be at a rate of 3 per cent per annum over the medium-term. For the traditional paper

world paper industry which are threatening their long-term competitiveness. The Scandinavian forest pro-

ducts industry, in particular, has a number of serious long-term worries. Its forests are just about fully exploited, wood costs are twice as expensive as those in places like the southern states of the U.S. and, finally, its energy costs are far higher than in North America.

On the technical side, this means that Scandinavian producers rely more heavily than most on mechanical pulping since this gives twice as much pulp per tree as is the case with chemical pulping. It also leads to far less pollution. However, it is more costly in terms of energy and tends to be only suitable for low quality paper production, for example, news-

Thermo - mechanical pulping, which gives higher quality pulp, is becoming increasingly important, but energy costs are critical. For this reason the result of the recent referendum in Sweden on the future expan-sion of nuclear energy has been welcomed by the Swedish paper around 5 per cent last year to industry which accounts for 40 per cent of the country's entire industrial energy consumption.

If Swedish voters had voted against the nuclear expansion programe, it had been estimated that a fifth of the country's paper ably stagnate from mid-year and pulp industry would have onwards and could fall margin-become unprofitable as a conseally in some instances. On quence of higher energy costs.

grame will help the paper industry, it is not sufficient to

resumed—if one includes hie Brazil and the southern states developing countries, this could of the U.S. in pulp and paper production. These areas are becoming increasingly important producers of market pulp and producers of Scandinavia and other relatively low quality procanada, the coming recession is ducts, such as newsprint and a relatively minor problem in kraft liner. contrast to the fundamental. They are starting to make shifts in the structure of the inroads into Scandinavia's tra-They are starting to make

While the expansion

ditional near captive market in Western Europe. Brazil, for instance, will have 1m tonnes of market pulp available for export this year, while some of the new mills in the deep south of the U.S. have been designed with the European market in mind. Aside from Kraft Line, the U.S. has never been very "export conscious" in the past,

but attitudes are changign. In a useful recent study on future developments in the pulp an dpaper industry, English China Clays says that the real strength of the American South lies in its low operating costs, offering a virtually guaranteed profitability regardles of market

Important areas

Against this background the Scandinavian producers are reducing their dependence on bulky low value products. Over the long-term, paper production, as opposed to simple pulp production, tends to be more profitable and the Scandinavians are concentrating increasingly on producing paper with a higher

Scandinavian mills are becoming more and more integrated print.
and the big producers are buying up paper mercahnts in their major markets to assure captive outlets. By 1984, all tariff bar-riers between EFTA and the EEC will have disappeared and is encouraging vertical integration in the markets of substantial the ultimate paper consumer.

MARKET PULP CAPACITY-1980

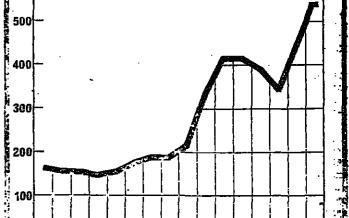
		growth
CANADA	7.5	+ 3.7
SWEDEN	4.9	+ 1.3
U.S.A.	4.3	+ 4.5
FINLAND	2.2	
BRAZIL	1.6 ·	+15.2
JAPAN	1.2	
NORWAY	0.7	+ 7.7
FRANCE	0.6	+ 2.6
SPAIN	0.5	
TOTAL Source: FAO	29,8	+ 4.2

Scandinavia still has one big advanatge—it is probably the most skilled producer of highquality mechanical papers. This is a growth market and some 90 per cent of Scandinavia's additional 1m tonnes capacity between now and 1983-84 will be given over to mechanical grades.

However, other European producers are investing substantial amounts in areas such as lighteight coated papers and there is a danger that in their eager-ness to reduce their reliance on market pulp, the Scandinavians may be moving from one highly competitive area to another, only slightly less competitive area. Scandinavia is not alone in

having to restructure its paper industry to meet the competitive threat of the new producers. Eastern Canada also has problems resulting from its traditional heavy reliance on news-Quebec and Ontario, alone.

account for around a quarter (6.6m tonnes) of the world's total newsprint capacity. Much of the machinery is composed or small, obsolete paper machines and virtually all the substantial currently being installed is



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dic manufacturers III	Timber resource
vsprint production IV	Market oppositi

West Coast of the U.S. and problems soon surfacing. British Columbia.

Nort

Euro

65,000 tonnes per year. Ву contrast, the average size of machines in the American Deep South is 125,830 tonnes per year and this gives considerable economies of scale. Pulp costs in Northern Ontario are a third higher than in the South.

At the moment, these deeprooted problems in Eastern Canada's newsprint industry and disguised by the strength of demand in the U.S. market and the weakness of the Canadian dollar which has given the area a tremendous competitive advantage.

The newsprint industry appears to be moving into a period of serious overcapacity and this, combined with any strengthening of the Canadian dollar relative to the U.S.

either in the South or on the dollar, could lead to serious

According to English China newsprint outlets in Western Clays, the average size of Europe and these will become Ontario and Quebec's 100 plus relatively more important, newsprint machines is around probably. In addition, it is diversifying into mechanical printing grades and lightweight coated papers. However, English China Clays points out that Canada lacks technology for sophisticated uncoated super-calendered. mechanical grades and markets for these papers have yet to be extensively developed.

While the Scandinavian and Canadian producers have more than their fair share of difficulties, the rest of the world paper industry still has 30 wrestle with the problem of pollution and the long-term threat from competitors such as plastic and electronic systems.

Plastic materials have made inroads into the paper packaging market, but penetration

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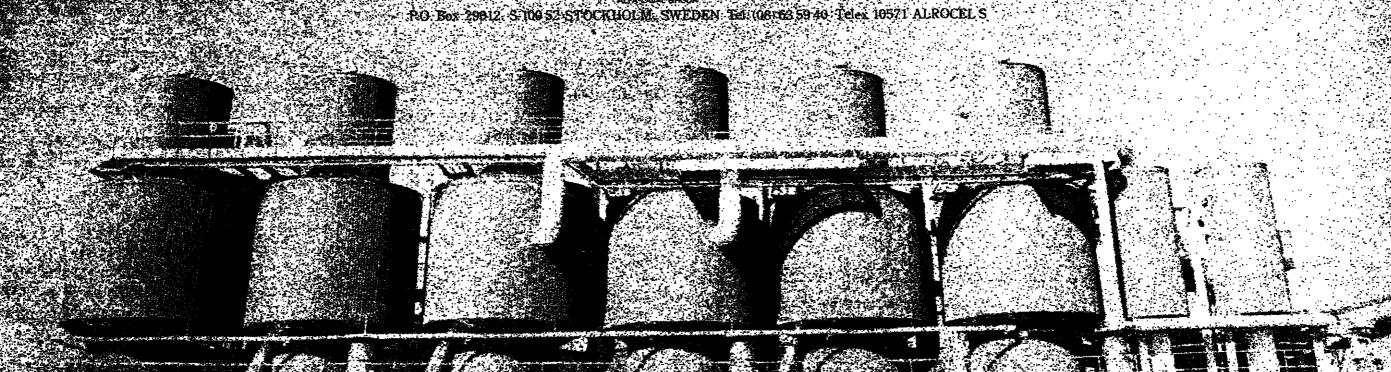
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ENSO-GUTZEIT Summa, Finland	PM 3 + GWD	News 130 000
HOLMENS BRUK Hallstavik, Sweden	PM 12	News 160 000
KAUKAS Lappeenranta, Finland	PM 1 + GWD	LWC 130 000
HOLMENS BRUK Braviken, Sweden	PM 51	News 170 000
UNION Skien, Norway	PM 7	News 120 000
PAPEL PRENSA Argentina	PM 1 + chemi-mech.	News 120 000
VAN GELDER Renkum, Holland	PM 3 + TMP + deinking	News 150 000
HYLTE BRUK [.] Hylte, Sweden	PMs 1, 2, 3	News 500 000
Current projects:		
MYSORE India	PM 3 + Coldsoda	News 75:000
KAUKAS Lappeenranta, Finland	PM 2 + Pressure GWD	LWC 150 000
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Surge in North American profits

market growth the pulp and large. well diversified U.S. groups

panies were extremely sensitive to swings in U.S. demand for newsprint and lumber and were less diversified, casualties and takeovers were rife. But the renewed prosperity which came as the American economy recovered and went through one of its longest ever continuous growth periods has been extraordinary. It has been based on a renewed surge in newspaper tivity improvements and the advertising in the U.S. recovery application of electronics to of profits in the U.S. newspaper industry - itself, sustained demand for pulp which reversed an embarrassing over-supply growing shortage, and strong markets for linerboard, packaging materials and specialty papers. There are several very large linerboard producers in the rise of money costs to new south-east U.S. which, during record highs. It is now previous recessions, have been expected to show up without

AFTER THREE years of unex- the Western hemisphere and in covery delayed until the second pected and unprecedented the Pacific area, and are not quarter of 1981.

of dollars again. There is more oil prices had been absorbed, caution than in the buoyant 60s has proved resilient in both but the industry is in better countries. Last year there were shape to finance expansion than at any time in the last decade. western U.S., which helped to It hit severe turbulence in make the newsprint market the 1970 tight money recession tighter than at any time since and again during the recession the commodity boom of 1973. which followed the 1973-74 There are more negotiations in energy crisis. Most large and the U.S. this year, and while western Canada has mostly weathered those storms without settled wages for a couple of structural damage, though a years, the possibility of a strike few emerged in emaciated form. in the east this spring cannot be In Canada, where many com- written off.

More investment

Most important has been the three-year resurgence in profits, the ability to finance not only urgent environmental Improvements but also to invest once again in new mills and machines, speed-ups, produc-tivity improvements and the machine control and quality measurement. The industry has always been to the fore in the use of alternative fuels, more efficient heat systems and in the use of tree residues as fuel.

The recession the U.S. expected to arrive last autumn, has been delayed despite the costs traditionally are lower are distinct signs that the money Generally, crunch may have passed its though, American paper pro- peak negative growth may well newsprint. Its experience in duct exports tend to move in continue throughout—with re- the first quarter of this year

However, while the immepaper industry in Canada and The industry's cost structure, diate impact of record high the U.S. is investing billions once the shock of quadrupled interest rates was felt in interest rates was felt in wholesale prices from the 1979 highs, it will take pretty well all this year to complete rebuilding of newsprint stocks to the traditional 45 days supply. Certainly in the first quarter newsprint and paper demand has continued very strong, perhaps influenced by the possi-bility of a strike in the eastern Canadian mills, which normally sell most of their output to the

> There is no doubt the industry in North America will con-tinue the largest single force in world paper for many years to come, despite the natural advantages of some new producers.

Most majer Canadian pulp and paper groups are also relatively large timber producers, particularly, in Western Canada, and during U.S. recestimber is the first area to weaken. On the other hand, as the American economy is stimulated, housing is the first to pick up, bringing about dramatic increases in prices. This pattern will probably be

economic cycle. Abitibi-Price Ca, a merger which followed the last crisis a merger

largest single producer of

major preducer of timber and fine papers and has a jointly owned base metals mine in Ontario, First quarter earnings were Can.\$34.6m against Can.\$22m a

year earlier on sales of Can.\$386m against Can.\$354m. Planned expansions will bring newsprint capacity to 21m tonnes by 1985, up 15 per cent. The company foresees the possibility for surplus capacity in its mills appearing briefily around 1982 because several Canadian able to sell significant amounts fail in the second quarter of in the Canadian industry, is a 1982 because several Canadian in Europe. U.S. linerboard this year, though already there major exporter to the U.S. and mill expansions are due on Europe and isy now the world's stream in that year.

Roughly half the profits of companies such as Abitibl Price come from exchange gains on

may well be typical of the U.S. sales—forest larger diversified eastern prices are set by the U.S. sales—forest products prices are set by the U.S. mar-ket. The companies are nervous larger diversified eastern Canadian comapnies. It is a about the Canadian dollar being pushed up by continuing oil discoveries off the east coast and in Western Ganada, which in-effect would limit their profits. This seems less an immediate danger since the Trudeau Government may well be looking for the opportunity to use capi-tal inflows to allow a lower interest rate policy in Canada.

Logs, destined for Canadian paper mills, float along the Gatineda River

in North America in the past two years of pulp and paper prosperity has been the shutdown of the Port Cartier, Quebec, dissolving pulp mill of ITT Rayonier because of persistently high wood costs and

likely for at least two years. In Canada newsprint mill expansions and speed-ups due on stream by the end of 1982 total about 1.2m tonnes of annual

production above the present 91m tonnes capacity. A new green-site mill new costs about Can.\$1,500 per tonne capacity more in Canada than in the U.S., mainly because of higher Canadian construction costs. Canadian expansions are spread across the country and include new capacity in Alberta. Pros-pective newsprint expansions in the U.S. by end of 1982 total hearly 800,000 tonnes and would bring total capacity to nearly

Robert Gibbens

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FOR THE West European paper first nine months of 1979. industry, 1979 turned out to be In Belgium, production a better year than expected. True, the problems of re latively strong domestic currencies led to further import penetration but this was overshadowed, in most cases, by the buoyancy of the overall market.

West European consumption of paper and board is estimated to have risen 6 per cent in 1979 and production was up by 7 per cent. The EEC, as a group, probably consumed around 33m tonnes last year, of which three quarters was produced domestically. Shipments of market pulp (the industry's main raw material) to Western Europe rose by 6 per cent to 9.5m tonnes.

Sweden continues to around 25 per cent of the European market with market pulp. followed by Canada (21 per cent), Finland (13 per cent) and the U.S. (11 per cent).

Within Western Europe, the actual performance of individual countries varied considerably. In Germany, which is the EEC's largest producers, paper and board production rose by 8.0 per cent to 7.4m tonnes. This was double the growth rate in the previous year. In France, the industry also expanded faster, with output up by some 6.0 per cent at 5.3m tonnes. The same

In Belgium, production rose

by a hefty 8 per cent last year and only the British industry seems to have failed to participate in the upswing. growth of UK output of paper and board slowed to 1.1 per cent in 1979. UK consumption was very buoyant but virtually all growth was taken by

Indeed, the overall UK per-formance would have looked considerably worse had it not been for a 14 per cent plus increase in UK newsprint production. This accounted for all the growth in the UK market.

Board pro

writings, which had grown by an above average 6.8 per cent in the previous year, fell marginally in 1979. Meanwhile, board output which used to account for over a quarter of total UK production, continued to fall steadily. Thames Board Mills (part of Unilever) announced that it was stopping board production at its South Purfleet

The combination of a strong domestic currency plus a high domestic rate of inflation has taken its toll of the UK industry and imports now account for wenut for Italy where paper and about half total consumption, year, board production was running compared with 40 per cent in The

paper and board rose by 8.6 per cent to a new record of 9.5m tonnes in 1979. Among the sectors recording above-average growth were graphic papers (plus 10.2 per cent) hygenic papers (plus 10.3 per cent). Paper and board imports rose by 12.1 per cent to a new peak of 3.8m tonnes but exports also hit a new peak of 1.7m

West German consumption of

According to the German 1979. Close to half the country's Some analysts are talking about usage per tonne of paper, by 4

per cent last year.

tonnes—14 per cent up on 1978.

Within the German industry, the process of closing down smaller mills and forming bigger units continues apace. Since 1973 over 60 paper mills have been closed and around 100 paper and board machines scrapped. At the end of 1979 there were 230 paper mills operating in Germany and around 450 paper machines— giving an average machine capacity of 18,000 tons. industry expects to invest over \$400m on new equipment this

some 11.5 per cent higher in the Germany and a third in France. a very good year in 1979. Per grow by 3.4 per cent per annum

capita consumption rose to -more than twice as fast as un-117 kg and overall consump- coated papers. The latter is tion was up by 8.5 per cent at forecast to grow by 1.3 per cent 6.25m tonnes. Tissue production rose by 11.7 per cent to 174,000 tonnes and packaging paper output was up by 6.8 per cent at 2.1m tonnes. paper exports rose by just under 17 per cent to over 1m tonnes—over half of which was accounted for by graphic

In the first few months of this Paper Association, the industry year European paper production had some success in increasing is holding up relatively well, but the use of wastepaper and no one is expecting that 1980 reducing its energy costs in will be as good a year as 1979. paper and board production is a 1-2 per cent growth in the now produced from wastepaper European market this year (3.2m tonnes), and the industry although in certain important put could fall by a couple of per centage points.

Although production is ferecast to recover in the early 1980s, the overall growth of the West European market seems bound to slow. In the important printing and writings market. English China Clays has forecast that European consumption will grow by only 2.1 per cent per annum over the period 1978-

two-thirds of the market is made up of uncoated papers and the \$400m on new equipment this rest is coated. According to year. English China Clays, coated The French industry also had paper consumption is going to

At the moment, just under

Until now, European coated aper production has been paper supported by exports to places like North America. However, there are now signs that the industry is moving into a period of prolonged overcapacity.

America has been investing in new light weight coated paper capacity, in particular, and European sales to the U.S. are these were running at 140,000 tonnes per year a couple of ducers feel vulnerable.
years ago but will be down to Import penetration is c be exporting to Europe.

Feldmuchle, West Germany's biggest paper company, has forecast that there will be 600,000 tonnes overcapacity in Western Europe, equivalent to 25 per cent of the market, by 1983/84 if current expansion plans are completed. It expects Western European consumption of light weight coated paper to rise by 250,000 tonnes to 1.75m tonnes per annum by 1983.

If all the expansion plans go ahead there will be an extra 800,000 tonnes of annual capacity. Feldmuchle has estim-ated that Italy will have 210,000 tonnes overcapacity in the light

weight coated grades, France will have 140,000 tonnes overcapacity and Finland 150,000 tonnes. Against this background Feldmuchle is not at all optimistic about the future profitability of this part of the European paper industry.

Tariff barriers

Aside from the threat of overcapacity in certain sectors the other main concern of the European industry is the progressive. reduction in tariff parriers. Without the benefit of the huge going to suffer. According to forest resources and large Pulp and Paper International, integrated mills of Scandinavia and North America, EEC pro-

Import penetration is creening 70,000 tomes in the current up in most countries, and local look out for what the industry refers to as "scissors' This occurs when a major producer raises his pulp prices thereby increasing the cost of the EEC paper producers' main raw material, but cuts his own paper prices. In such circumstances the EEC producers find it hard to make a living.

However, the Scandinavian livingproducers realise that it is in their interests to work withthe EEC producers rather than put them out of business and for this reason there is a t endency for greater vertical integration in the major European markets.

William Hall

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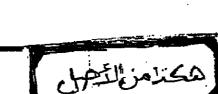
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Mood of optimism

CONTINUED FROM PREVIOUS PAGE

the future is less clear.

In the past the advent of new communications media, such as TV and radio, has not proved as critical as the pessimists first forecast. Newspapers first forecast. Newspapers continued to flourish and people still read books. Any slackening in growth has been more than compensated for by the development of new uses for paper and this evolution is bound to continue.

has slowed following the sharp fifths of the world's papermak-rise in oil prices during the ing capacity, there may well be 1970s. With electronic systems, some clouds on the long-term ing capacity, there may well be some clouds on the long-term horizon. But for the developing countries there is no such problem. The differences in per capita consumption between places such as India and the U.S. is vast and the mere pro-cess of catching up will ensure that the world paper industry will remain one of the world's major growth industries for the next few decades.

* Some major developments in the pulp and paper industry. For the industrialised countries, which control over four 1980

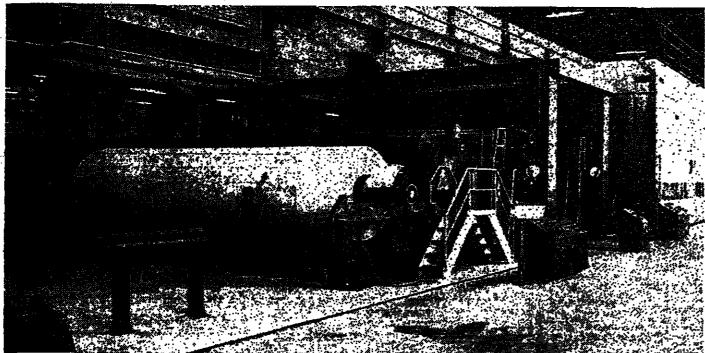
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Last year was a record production year for Swedish mills. Above: The Swedish Cellulose Company's paper factory at Ortvikens

Encouraging year for Nordic manufacturers

THE NORDIC pulp and paper industries is under way again. makers had a good year in 1979.

• In Sweden, the mills prowith both production and duced more paper and board exports climbing substantially than in any previous year in and earnings recovering after 1979 after a 10 per cent climb far, in 1980, markets have been responding to 86 per cent of more firm than expected three the paper industry's theoretical value of the dollar is pushing nine per cent to 4.7m tonnes up export earnings and a second developing, although many com- in Western Europe. pany executives voice reservations about the second half.

Europe, as they did in 1975 and

Both the sustained demand and the rise in the North 881,000 tonnes from an output American mills' production costs as a result of new wage settle— On the pulp side, developments now appear to have ments in 1979 drew attention to reduced that threat. porters could confidently raise market pulp grew by 4 per cent their prices by 9 per cent for to 3.9m tonnes but deliveries second quarter delivery after exceeded 4m tonnes after the increases in North American mills had drawn on stocks. Diffi-

The recent rise in the exchange rate of the dollar is also benefiting the Nordic mills who price their pulp and newsprint in dollars. The Swedes calculate, for instance, that each SKr 0.01 rise in the dollar rate adds SKr 20m (£2.08m or \$4.4m) to their annual earnings. The rate has moved from SKr 4.10 to SKr 4.50 this year.

Consolidation

On the other hand, the mood in the Nordic industry falls far short of being euphoric. The short of being explaints. The 1979 recovery in profits only partially repairs the damage done by the losses of the three previous years and company financial directors speak in unison about the need to conceive from the receitions furnishing the second profit of the second conceivers. solidate financial positions fur-

Company Boards are also aware of rising energy costs, wood supply problems and high wood prices, all of which spell the need for investments in the improved earnings situation does appear to be generating more investment decisions this

Another bull factor is the growing fibre shortage in Western Europe which, in the long term, despite the flucutating competition from the North Södra.

the Nordic and West European medium term, has revived in-

So in output to 6.3m tonnes, cormonths ago—the rise in the capacity. Exports were up by and three-quarters of the progood profit year appears to be duction increaes were marketed

Newsprint output jumped almost 230,00 tonnes to 1.48m The situation on the North tonnes with deliveries abroad plant.

American market now favours rising roughly in proportion to the Nordic producers. They 1.2m tonnes. In the other main had earlier feared that a recession in the U.S. would curb tonne kraft paper production' sion in the U.S. would curb tonne kraft paper production domestic demand for pulp and was exported; fine paper exports paper this year and prompt the took 412,000 of the 624,000-North American companies to tonne production total; and of increase deliveries to Western the 375,000 tonnes of magazine Europe, as they did in 1975 and paper manufactured, 213,000 tonnes found their way abroad. Kraft liner exports reached of just over 1m tonnes.

that threat. The one of the problems facing the and Finnish pulp ex- Swedish industry. Output of culties in optaining wood curtailed production which of theoretical capacity.

came out at about 81 per cent The demand/supply situation was sufficiently tight for the mills to be able to raise prices in most pulp, paper and board grades. As a result, companies have been reporting a gratifying in most pulp, paper and board grades. As a result, companies have been reporting a gratifying better than the Swedish mills turn-round in profits, from a last year. The pulp mills combined loss of about SKr 570m in 1978 to pre-tax and increased output by 17.8 earnings of SKr 1.9bn (£198m per cent to just over 7m tonnes.

To put these earnings into perspective is must be recalled that the Swedish mills had combined losses of around SKr 2bn in 1977 and 1978, that the 1979 profits barely equal those of 1976 and are only half those recorded in 1975.

Moreover, performance varied markedly from company to company. Of the SKr 1.9bn pre-tax earnings Svenska Cellulosa (SCA) contributed SKr 537m and Stora Kopparberg SKr 430m and Stora Kopparberg SKr 430m while Mone turned a 1978 loss while MoDo turned a 1978 loss of SKr 159m into pre-tax earnings of SKr 273m last year. At operate in the red, while the Government had to inject SKr 1.1bn in capital into the two largest companies owned by mills reached a the forest-owner co-operatives. The State now owns 74 per cent tonnes delivered. Not all the Finn losa (NCB) and 40 per cent of

American mills, should offer the Nordic manufacturers an expanding market.

To make sure; more and more Nordic companies are moving directly into Western Europe through takeovers or joint which ensured the industry of regulators are moving the integration of redecate approximation in the state of the March 23 national referendum on nuclear power, through takeovers or joint adequate approximation in the The integration of adequate energy supplies in the

European market last year. Paper and board output reached

1.4m tonnes with exports just

Newsprint production reached

\$680m) in export revenues last

The Norwegian mills have been re-organising to take ad-

relatively cheap hydro-electric

power, and to make best use of their limited wood resources by

Investment has been made in the areas of thermo-mechanical

around 1m tonnes a year by

William Dullforce

record 568,000 tonnes, of

SCA is going ahead with SKr 1.1bn investments in a new pulp plant, including chemical thermo-mechanical pulp, and in Newsprint production. a conversion to fine paper production of a kraft paper mill. which 462,000 tonnes were exduction of a kraft paper mill. Which 402,000 tonnes were ex-Stora Kopparberg has some ported. Wood-container printing and writing papers were also pipeline—mostly in printing well ahead of previous peak papers—and Holmen Bruk is outputs at 245,000 tonnes with now expected to proceed with 195,000 tonnes going abroad. now expected to proceed with 195,000 tonnes going abroad. the expansion of newsprint Altogether, the Norwegian mills capacity at its new Braviken earned Nkr 3.48bn (£310m. or

Co-operation

Significantly, SCA's new fine paper mill entails co-operation with Papier Waldhofaschaffenburg AG of West Germany. moving into products which Feldmühle, also of West Ger- utilise timber to the maximum. many, is understood to be negotiating with the Munksjö and Ropparfors companies for Newsprint capacity should reach shares in their pulp production.

Further evidence of the trend towards integration with the West European industry come from MoDo, which, over the past 18 months, has bought up two French wholesalers, Grillet et Féau and Davupap, and Link Paper and Supplies in Britain, while Billerud's bid for Lafarge Emballage, one of France's largest packaging companies, Government interven-French

• In Finland, the pulp and

Exports at 1.87bn tonnes were up by almost 22 per cent, as the Finnish mills took back market shares lost during the recession, while the 51 per cent rise in the value of pulp exports gives a fair measure of the price increases the Nordic mills were able to take in 1979.

Capacity utilisation in the

Paper exports, at 3.5m tonnes, were well ahead of the previous rationalisation and plant the other end of the scale, the record year, in 1974, while modernisation. In this respect, State-owned ASSI continued to board exports at 1.16m tonnes fell some 170,000 tonnes short of the 1974 total. The Finnish mills reached a new peak in newsprint exports with 1.39m

> Not al Ithe Finnish companies have reported their 1979 results in full, but—as with the Swedes
> —a strong improvement in earnings is already apparent. However, Mr. Matti Pekkanen,
> managing director of the Central Association of the Finnish Forest Industries, described pro-"on average unsatisfac-

This is fair comment when the 1979 earnings are placed against the extraordinarily high indebtedness into which most Finnish companies fell during the 1976-78 recession. The Finns undoubtedly need another good profit year.

To damp inflation. Finland has adopted a policy of revaluing the Finnmark, the latest adjustment being made in March. These revaluations restrict the mills' export earnings but may be more than offset by reduced labour costs.

Last month the Finnish paperworkers union accepted an average 9.5 per cent increase in annual incomes for its mem-bers. The Finnish millowners at least know where they stand on labour costs this year, whereas the Swedes are still waiting for a national settlement.

 Norway's pulp and paper industry is smaller than those of its two Nordic neighbours. It has fewer forest resources to call on, its market pulp output is now confined to some 240,000 tonnes and it has been steadily specialising in newsprint and other printing papers.

The Norwegian mills, too, benefited from the increased demand: and higher prices for

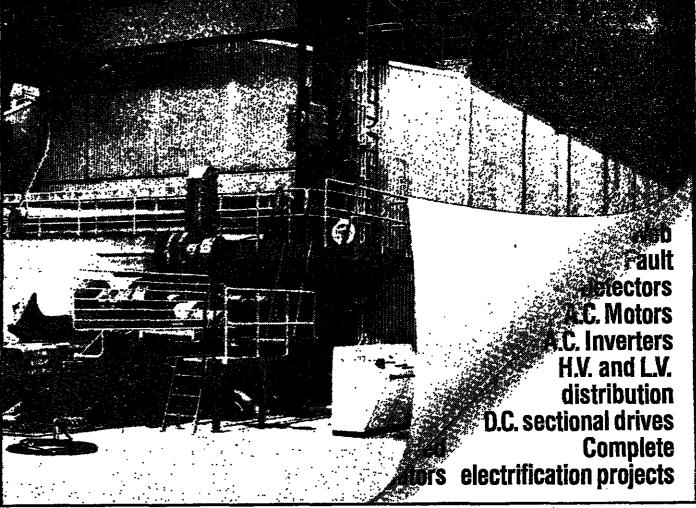
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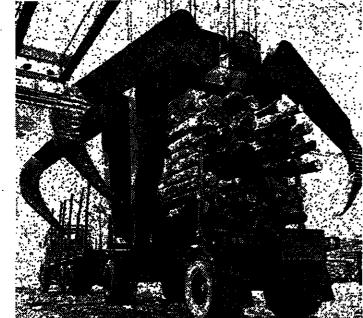
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Finland's pulp and paper industry performed even better than the Swedish mills last year, with exports up by almost 22 per cent. Above: log handling in Finland, with a 30-ton Kone crane, fitted with a giant hydraulic grapple

Problems for newsprint producers

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Last year the demand for newsprint in the non-Communist world grew by around 31 per cent to 22m tonnes, according to stockbrokers newsprint in the world. How-Phillips and Drew. In some ever, its production slipped by countries production grew con- 1.2 per cent to 8.7m tonnes last siderably faster.

advertising is as well, and

Swedish production, for example, rose by 18 per cent to 1.5m tonnes and Finland Even in the UK, where the industry is losing money, output rose by over 14 per cent.

The newsprint market is dominated by the U.S., which accounts for around 40 per cent of the world's consumption. The long-awaited slow-down in the U.S. economy took longer than expected to arrive, and U.S. newsprint consumption held up surprisingly well during 1979.

Having risen by 6 per cent in 1978, American consumption rose by another 3.4 per cent to a record 10.2m tonnes in 1979. Stocks of newsprint declined for most of the year

is a sensitive barometer of the some newspapers had to stock levels have been rising state of the economies of the restrict their pagination because they are still well under the developed world. Newspapers of newsprint shortages. For 40 days' supply long regarded live off advertising, and when the first time for more than economic activity is buoyant five years the U.S. started im- American industry. porting newsprint from else-There are two main reasons where aside from Canada principally Scandinavia, but

> the UK also exported some. source of supply and far and away the biggest producer of year, mainly because of strikes at Canadian mills in British Coloumbia and New Brunswick.

The result was that supplies increased its output by a of newsprint were tight, in particular in North America, and throughout the year. Standard newsprint prices in the U.S. started 1979 at \$320 ton, were increased to \$345 per ton in March, and to \$375 per ton in September. Since the year-end they have been increased again to \$400 per ton -an increase of 25 per cent in just over 12 months. In the previous 12 months they had remained unchanged The strength of U.S. news-

print prices, which have a big moves under way. Against this, on world prices generally, caught many people into recession and this is bound by surprise since there had long to affect demand for newsprint been fears that the industry was just about to move into a period of serious overcapacity. Indeed, casting nil growth in newsprint Phillips and Drew estimate that demand in 1980 and a 3 per cent world capacity increased by 3.7 per cent last year, which was slightly faster than overall world demand.

This was a marked change from the previous year when world demand grew more than twice as fast as capacity. Howhe decline in Canadian production offset the increased capacity and meant that the city could be growing by 6 per Scandinavians were able to cent a year between 1981-1983. increase their exports sharply to meet the shortages. Overall to meet the shortages. Overall for the next three years which Scandinavian exports were up will add 2.3m tonnes per year by nearly a fifth to 2.8m tonnes of extra capacity. in 1979.

of the year is running more than projects scheduled to come on

NEWSPRINT CONSUMPTION and there were reports that period of 1979 and although Pulp and Paper International as the normal level by the North

> why 1980 could be a relatively tight year for newsprint. It is an election year in America. Canada is America's major and, if past performance is any guide, this normally stimulates newsprint consumption. addition, there is the likelihood that some of the major Canadian mills will be hit by strikes as the wage bargaining season

NEWSPRINT OUTPUT 1979

•		
	00 townes rual growth	%
Canada	8709	(1.2)
U.S.	3727	9.1
Japan	2556	3.4
Sweden	1483	17.9
Finland	1330	18.1
Germany	650*	п.а.
Norway	550+	18.0
UK * Capacity.	364 † Approxi	14.2 mate.

the world economy is moving into recession and this is bound and put pressure on its price. Phillips and Drew are fore-

growth in world capacity. Most other commentators agree with this projection but further down uncertainty about the severity

In the early 1980s, newsprint consumption in North America is expected to grow by 2.4 per Projects have been announced

The current year has started Bloedel and North Pacific, for o ffwell. Consumption in the example, each have new 190,000 U.S. in the first two months tonne per year newsprint

Forecasts of U.S. consumption by the mid-1980s differ considerably. Predicasis inc. has forecast that U.S. consumption will rise from its current 10.2m tonnes a year to 12.9m tonnes

per year by 1985.

The American Newspaper Publishers Association, by contrast, has forecast that U.S. amount to 11.3m tornes. The is equal to the output of an extra ten large paper machines. As each of these new machines costs over \$200m at today's prices companies want to be

sure about their sums before committing themselves to new Against this uninspiring medium-term picture, it is difficult to be bullish about

newsprint prices. Phillips and Drew believe that Canadian capacity utilisation, which is currently averaging 95 per cent, will drop back into the low 80s over the next few years. While this may not lead to cuts in listed prices it could lead to an outbreak of price discounting.

As a result of the weakness of the Canadian dollar, newsprint producers in Canada have been making handsome profits so they can afford to trim their margins. However, the Scandinavian newsprint producers are less sanguine about the

True, they have had a rela- lem at the moment for Canada tively good year in 1979 (the is its unduly heavy reliance on Finns, in particular), but the newsprint. Something like two threat of overcapacity in North America is a very real worry for the major Scandinavian

Assuming that the new North American capacity comes on stream over the next three years and capacity utilisation rates fall, then there could be another 2.5m-3m tennes of North American newsprint overhanging the world market.

This is the equivalent of Scandinavia's entire newsprint exports, currently. Until now newsprint machines located in into higher quality paper such the Scandinavian's have sent the Southern states of the U.S. most of their newsprint (some In addition to the economies of 75 per cent) into the Western scale, newsprint producers in

NORTH AMERICAN NEWSPRINT CAPACITY

	Canada	U.S.	Total	Share
Abitibi Price	1,952	244	2,196	15.3
Inthi Paper	1,133	294	1,427	10.0
Bowater Inc.*	557	730	1,287	9.9
MacMillan Bloedel	. 1,231		1,231	3.6
Cons. Bathurst	994	· — · ·	994	6.9
Ontario Paper	700		700	4.9
St. Regis	ng 🛶yan	625	625	44
Kimberly-Clark	171	420	591	41
Kruger Pulp	486	<u> </u>	486	3.4
Boise Cascade	230	259	480	3.4

Does not include the 136,000 ton per year mili at Calhoon Source: Pulp and Paper International

were to start trying to effload their surplus newsprint on the Continental European markets -they already sell a hefty amount in the UK-then the Scandinavians could face difficult time especially since their wood and energy costs are so much higher than equivalent North American costs.

The Scandinavians may well be worried about the Canadian threat to their traditional markets but the Canadian producers themselves are not with-

out their own serious problems.
Aside from the threatened overcapacity, the biggest probthirds of the country's entire paper and board capacity is dedicated to newsprint.

Canadian machines are old and inefficient. According to a recent study by China Clays, the average size of newsprint machines in Quebec and Ontario (which account for a quarter of is 63,000 tonnes per year.

U.S. NEWSPRIINT short ton March 1974 202.75 May 1974 213.25 August 1974 234.75 January 1975 January 1976 285.00 December 1976 305.00 April 1978.

the benefit of wood costs which are a third lower

March: 1979

September 1979

For these reasons, Canadian producers are baving to face un to the steady drift southwards Virtually all the big new newsprint projects in North America are being located in either British Columbia, the West

Eastern Canadian newsprin producers are trying to diversify

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375.60

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Tighter controls on pollution

THE CAPITAL spending programmes of world paper and pollution control. Legislation be spent on improved water matter. All these by products spend film over the next ten pulp manufacturers increasingly controlling both air and water treatment plant and a further can disfigure a stream reducing years on efficient control equipequipment to protect the in stages by many countries.

environment. At the same time, In the U.S., environment more waste paper is being re-protection is now seen as cycled and attention is being a major factor affecting focussed on the need for long term forestry programmes.

The driving force behind these changes in production and raw material usage is in part the strength of the environmental lobbies. In the wake of pressure from lobby groups has come legislation in many countries and a new approach to environ-mental problems of production

Although the pressure groups, such as Friends of the Earth, in the UK, believe far more could and should be done, if necessary through legislation, there are indications that the industry and Governments are responding to their basic arguments.

polution is being tightened up \$0.3bn on air pollution control In the U.S., environmental

meet new water standards totalled \$0.3bn last year. During the past 10 years the industry has spent almost \$4bn on pollution control equipment improv-ing air, water and solid waste

Governments are responding to requirements is still uncertain, people.

However, it is likely that out of The effluent from mills The most obvious example of total capital spending in 1980 carries with it fibres of cellu-

Industry's claim

American Paper Institute in is one of controlling the effect December suggest that investment in equipment The primary pollution probeffluent produced during the production process. One impact of the growing concern over environmental pollution has been to strengthen the case for substitution of the sulphate pulping process.

In the UK, the industry is The U.S. industry now faces a one of the biggest and, the in-new wave of capital expenditure dustry claims, the most efficient to meet 1984 water standards as users of water, consuming 1.2m well as new air and solid waste cubic metres of water a day for regulations. The cost to the industry of meeting these enough to supply a city of 9m

growth of sewage fungus unless capital spending of over £20m; the effluent is suitabily treated on new plant.

and controlled.

In the UK, most mills distince principle of "the polluter charge effluent into public pays," it is concerned that a

sewers, for which they are charged, or into non-tidak streams estuaries.

Rather than set blanket water pollution restrictions, the UK —allowed the water authorities to set local standards of pollu-tion control for mills. The 1974 Control of Pollution Act, which is being implemented in stages, will bring all effluent dis-charges — including those hitherto uncontrolled discharges into estuaries and tidal waters — under the control of

the water authorities. Because of the rising cost of water and the need to control pollution the industry is developing water recycling processes resulting in less overall water usage — savings of up to 90 per cent have been achieved,

risk of pollution.

In 1974, equipment installed to recover fibres from effluent recovered 128.861 tonnes of pulp worth about £9m-double

less fibre is 1st and there is less

the cost of the plant.
In the 11 years to the end of 1974 the UK industry spent almost £13m on effluent treat. EEC draft directive on pollument and a further £2m has tion incorporating the dual been spent during the past five approach of uniform fixed years. This expenditure is now emission standards—strongly. years. This expenditure is now likely to be stepped up because of the impact of the 1974 Act. Currently, in the UK, between 2 and 10 per cent of a company's annual expenditure is attributed to relocation of the environment. environment.

environment.

Some of the largest mills are sited on tidal waters which will now come under water authority pollution controls. As a result, the British Paper and Board Federation estimates

its capacity to support plant and ment. In total, fite Act's pro-animal life and promoting the visions are likely to result in

reasonable time period should be allowed for financing new pollution control equipment.

that elsewhere in Europe pollution abatement schemes have been aided by Government funds. For example, in Sweden, which began an extensive anti-pollution drive in 1972, the Government met 75 per effinent plant.

In contrast to many other countries Sweden did not introduce official standards to which companies had to comply. Instead the problem was tackled through co-opera-tion and joint research by the industry and the Government

Economic limits

Nevertheles, the legal requirement that industry must avoid damage to the environ-ment as far as it is technically possible and within reasonable economic limits has led to extensive capital spending in the last decade.

The industry in Europe is now most concerned with an resisted by the industry and UK Government—and a more flexible standard based on local environmental conditions. This directive, together with other EEC pressures and national legislation could significantly

CONTINUED ON NEXT PAGE

MICROPROCESSORS FOR PROCESS MEASUREMENT AND CONTROL

BOYLE Industrial Gauging Systems Ltd. announce the extension of their range of advanced microprocessor design of process measurement and control systems. System 18000, as the new range is called, complements the larger System 380 announced in the September 18th Issue of the Financial

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PRICES

Investment on a major scale

A COUPLE of years ago, Janko Poyry, the Finnish paper industry consultants forecast that the world's paper industry would have to intall about 120-130 paper machines a year, over the next five years, to keep up with the estimated growth in demand. This involved a fiveyear investment of the order of \$100bs:

Since then, growth forecasts have been revised downwards and some of the more heady expansion plans have been pigeon-holed. Nevertheless, the world paper industry is still probably spending upwards of \$15bn a year on new plant and equipment, and with inflation, this will soon be running at more than \$20bn a year.

The paper industry is a very capital intensive business. In order to reap the economies of scale; a new newsprint machine has to have a capacity of more than 150,000 tonnes per year, a pulp mill has to have a capacity of at least 250,000 tonnes per plans. year, and a single kraft liner machine is likely to have a capacity of between 300,000 and 400,000 tonnes per year.

At present day prices, a newsprint machine can cost \$200m and an integrated pulp mill could cost at laest double that figure. The U.S. industry alone spent nearly \$5bn on new equipment last year and will spend \$5.5bn in 1980 according to the latest McGraw Hill survey. Several U.S. companies, such as International Paper and Champion International, have announced multi-billion dollar investment programmes for the next few years.

kraft linerboard mill in Mont- Food and Agricultural Organi-

460,000 tones per year kraft linerboard project at Mansfield, Louisiana, next year. This gives a flavour of the sort of projects in the pipeline.

While North America still accounts for the lion's share of capital spending, there are some very major projects under way other parts of the world. Most people are familiar with the big scheme under consideration in Brazil such as the huge Jari project, but there are also sizeable developments in other developing countries.

Sources of data,

There are numerous sources of information about the growth of the world's paper and pulp capacity. In North America. both the American Paper Institute and the Canadian Pulp and Paper Association publish details of industry expansion

Trade journals such as Paper. or Pulp and Paper International (PPI) also do regular surveys findustry expansion plans. According to the latest PPI survey, for example, the world's paper and board capacity will be increased by 20.1m . tonnes between now and 1983. There will be 5.3m tonnes of extra newsprint capacity, 6.7m tonnes of printings and writings, 5.8m tonnes of packaging (including kraft liner), 0.8m tonnes of tissues and 1.5m tonnes of other papers and board.

However, far and away the best source of information about the expansion plans of the world Union Camp Corporation will paper industry is the annual bring on stream, later this survey of world pulp and paper a 350,000 ton-per-year capacity undertaken by the

gomery. Alabama, and Interna- sation (FAO) of the United tional Paper should complete a Nations.

According to the latest FAO survey, covering the period 1978-83, the world capacity of paper grades of pulp is ex-pected to increase by some 19m tonnes to 164m tonnes by 1983. This is equivalent to an annual growth in capacity of 2.5 per

Paper and paperboard capacity is forecast to increase somewhat faster, which is in line with recent experience. Overall paper and board capacity should increase by some 26m tonnes to 214m tonnes in 1983.

At the pulp end of the in-dustry, one of the main features of recent projects has been the sharp increase in thermo-mechanical pulp capacity. World capacity is expected to more than double over the next three

Very simply, paper is made from two types of pulp — mechanical and chemical. The former is made by grinding the logs together. It makes more efficient use of a tree, since there is far less waste, but many impurities remain. Consequently, mechanical pulp tends to be only used for low quality paper, such as news-

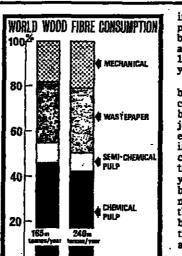
With chemical pulp, the impurities are removed, as its name implies, chemically. It has a much wider range of uses and as a result there is three times as much chemical pulp capacity as mechanical capacity in the world today.

Because it is such a wasteful process and leads to serious pollution problems, scientists have been trying to find an alternative to chemical pulp for many years. One solution is thermomechanical pulping and, in

CONTINUED FROM PREVIOUS PAGE

WORLD PULP, PAPER AND PAPERBOARD CAPACITY, 1968-83

	- ∙	Total (apacity		Annual .	Average .	Lucrease
	1968	1973 milion m	1978 etric tons	1983	1968-73	1973-78 per cent	1978-83
Total woodpulp, paper grades	98.1	120.0	134.9	152.0	4.I	2.4	2.4
Other Paper and Paperboard	80.1	100.3	118.5	132.7	4.6	3.4	2.3
Mechanical*	25.5	28.9	32.6	37.4	2.5	2.5	2.8
Semi-chemical**	7.0	9.8	10.4	11.6	7.2	1.2	2.1
Chemical	65.6	81.2	91.9	103.0	4.4	2.5	2.3
Other fibre pulp	7.1	7.8	10.4	12.5	1.9	5.9	3.8
Dissolving pulp	5.3	5.3	6.0	6.6	2.2	0.4	. 1.7
Total Paper and Paperboard	127.0	160.2	187.7	214.2	4.8	3.2	2.7
Newsprint	22.1	24.7	26.4	31.9	2.3	1.3	3.9
Printing and Writing	24.9	35.3	42.8	49.6	7.2	4.0	3.0
* including thermo mechanical pulp		_					-
** including chemi-groundweed		•					
Source: Food and Agriculture Organ	ılsation	of the U	nited Na	itions, P	ulp and l	Paper Ca	pacity



areas such as Scandinavia where wood supplies are limiting future expansion, it can be a very attractive proposition. The one drawback is that it uses a lot of energy.

At the end of 1978, the FAO estimated that 3.2m tonnes or 2.4 per cent of the world's pulp capacity was thermo-mechanical. This is expected to grow to 7.0m tonnes by 1983.

Only some 10 per cent of the world's total pulp production reaches the world's markets the rest is used by integrated mills. Canada is the biggest producer of market pulp account-

ing for about a quarter of world paper and board production. If production. However, Brazil is bringing new capacity on tsream and will be supplying around 1m tonnes of market pulp this year. This will double by 1983.

In the area of paper and board, probably the most signicant development recently, has been the sharp increase in pro- year newsprint mill in Scotland jected newsprint capacity (see elsewhere in this survey). During the last five years, world capacity only grew by 1.7m a leading UK paper merchant. It is in the developing countries, however, where the most years it is expected to increase by 5.6m tonnes. The bulk of the new capacity will be installed in the developed market economies but there will also be substan-tial increases in Lating America and Africa.

The other phenomenon run-ning through many of the projects now under discussion is the steady integration of the industry. In Scandinavia in particular, competition from more productive forest producers closer to the Equator means that the Scandinavians are having to integrate their operations to a greater and greater extent.

Instead of producing just pulp and rough paper, such as newsprint, they are diversifying into higher value added products such as light, weight-coated papers. This is being viewed with some concern by many countries. Germany's Feidmuehle, for example, believes that if all the current projects for light, weight-coated paper are undertaken there will be 25 per cent overcapacity in the industry by 1983/84.

Apart from major investment in light-weight coated paper cartonboard production (another area of over-capacity) the Scandinavians and North Americans are also diversifying more stealthily, buying up their former customers so that they have a captive market and a greater say in how their paper is ultimately sold.

Jaako Pöyry estimated in 1978 that North America controlled 11 per cent, and Scandinavia 6 per cent, of the EEC

anything, the involvement is likely to have increased since then. Two recent examples highlight the sorts of ways this involvement has manifested itself. Consolidated Bathurst of Canada is working on final plans for a 150,000 tonne per —it will be the majority partner. Meanwhile, Sweden's

MoDo group recently took over exciting capital projects, are to be found. The per capita con-sumption of paper ranges from 274 kg per head in the U.S. to 2.1 kg per head in India.

It has been argued that the minimum consumption should be of the order of 30 kg per head and this implies tremendous growth in paper making capacity in the developing countries. Paper and paper-board capacity in places like Iraq and Indonesia, for example, is forecast to treble between 1978 and 1983.

One of the major obstacles to growth in these areas is the shortage of finance. Foreign investors are reluctant to inject hundreds of millions of dollars if they are to remain minority partners. Problems such as these are not peculiar to paper projects, but they tend to be more talked about since paper is one of the main areas of growth in many developing countries as literacy levels rise. Instead of investing in huge 250,000 ton per year projects the developing countries are being encouraged to lower their sights and start with smaller

tons per year capacity. In areas of high unemploy-ment economies of scale are far less important. The market is often not big enough to digest the output of a modern paper machine. In addition, smaller mills are easier to run, make less demands on skilled manpower and break down less frequently.

scale mills of around 40,000



Globetrader

of waste paper—a subject which industry over the past decade. In 1976/78, about 14m tons recovery" was almost 32 per will be discussed at an Euro- The proportion of waste paper pean conference on Waste recycled varies considerably Management in London in from country to country. The - proportion is affected by many

Tighter controls

If is perhaps the waste paper factors including the availa-and packaging issues which bility and price of virgin pulp, have attracted most attention the types of paper produced from environmental pressure and the sophistication of waste groups, governments and the paper collection systems.

of waste paper were used in the cent production of paper and board, improv recycled and roughly 22 per cent of fibre consumed. recycled

declined in the 1960s, but in 1970s accounted for an increasing proportion because of the rising price of wood and environmental considerations. paper used in paper and board per cent more than in 1978. in1978 or about 8m tons. Large

print, tissue paper, printing per cent of the total raw matand construction board and erials used compared to 38.5 Not surprisingly, the U.S.,

pulp industries, use the least own figures show that in 1979 recycled paper in paper and only 28.6 per cent of the total board production.

the low base level and other factors including environmental pressure and Government intercountries that waste paper is and board which could be re-increasing most rapidly. covered. In Sweden, a 1975 Govern-

ment resolution provided for the

compulsory collection of waste paper to be fully implemented by 1980. However, in recent years the capacity of the Swedish paper industry for recycling has expanded so rapidly that it has outstripped supply leading to the need for imports. Last month, the Swedish Pulp and Paper Association warned of the need for further imports unless more paper collections were introduced on the scale envisgaed in the 1975 legislation. Total consumption of waste paper increased considerably during the 1970s and as a result its share of the Swedish paper industry's fibre consumption grew from 6 per cent in 1970 to 10 per cent in 1979. The paper

cent over 1978. The industry recovered about 30 per cent of newspaper per household in 1979 and the use of recycled newsprint increased by 38 per cent to 243,000 tons. A further increase in the use of de-inking machinery is ex-pected to boost demand for recycled newspapers this year by u pto 80,000 tons.

mills used about 635,000 tons of

In the U.S., progress has been less speciacular. However, last year paper and paperboard mills cycled paper, five per cent more than in 1978. The American Paper Institute estimates that recycled paper. the industry's recovery rate from paper "available for

continuing a steady improvement in recent years." Among EEC members, 1973 ent of fibre consumed.

The percentage of waste ranked third behind West Gersteadily many and Denmark in the use of recycled waste paper. UK consumption of waste paper has

from the industry suggest that Combination board consumed in 1979 the industry used almost over 55 per cent of all waste 2.2m tonnes of waste paper, 4.4 in 1979 the industry used almost Recycled waste paper is now amounts of waste paper are the most important indigenous also used in producing news- raw material for the UK indus-papers, semi-chemical board try, last year it represented 52

remained relatively static since

1973 although the latest figures

per cent in 1968. Som oef this recycled waste Canada and the Scandanavian however represents manufacturcountries, with large indigenous ers' "scrap" and the industry's 7.5 tonnes of paper and board However, perhaps because of actually consumed was recycled —a marginal increase over the 1968 figure of 26.6 per cent, but still a long way from the estivention, it is in some of these mated 69 per cent of used paper

£400m saved

Last year, the use of recycled waste in UK mills-over two thirds of which use some scrap -saved an estimated £400m in

imported wood pulp costs. Pira, the research association for the industry, suggests that waste paper is used if it is availabel, if there is sufficient fibre cleaning equipment installed in than 60 to 70 per cent of the price of the substituted virgin

The association is engaged in several research projects aimed at finding ways to extend the use of waste paper and over-come problems of production and product quality caused, for example, by adhesives on waste-

waste paper in 1979, an increase of almost 100,000 tons or 15 per paper.

Most of the waste paper which is recycled in the UK (82 per cent) is supplied by merchant processors. Waste paper recycled by local authorities has declined from 18.4 per cent of total waste paper consumption in 1970 to 9.7 per cent last year. In 1978, Friends of the Earth groups collected a further 3,000 tonnes of waste paper—0.15 per cent

The market for waste paper is particularly sensitive to a range of feators including price and used a record 15.5m tons of re-demand—factors which the cycled paper, five per cent more environmental groups argue limit unnecessarily the use of

Paul Taylor

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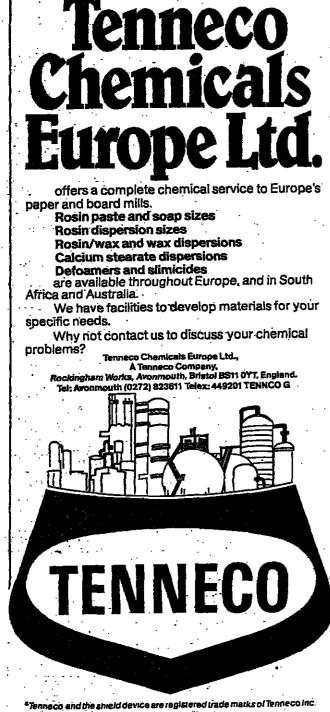
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Pressure on timber resources WOOD, the raw material for resources are now starting to developing countries badly in needs of the country, pulp and paper, is one of the reach exhaustion. Even in the need of export earnings, there. In Britain, for example,

WORLD FOREST RESOURCES

20,193

3,513 74,710

10,400* 1,239*

always be adequate supplies of forests being cut down in haptimber available to meet hazard fashion. requirements — unlike other industries which rely on resources that are becoming

cult to recover. practice. It is already becoming increasingly clear that con-siderable efforts will have to be made if the supply of timber is to match the growth in demand for wood—not only for pulp and paper, but also for its many other uses.

So far, the world has depended to a large extent on timber supplies drawn from timber supplies drawn from with new plantings—is well-forests built up over the established. But most timber-

Million cubic metres

Inited States

Western Europe

176,000

Minimum estimate

Source: Shell group

Eastern Europe

Latin America

Canada

USSR

Africa

Oceania

world's most important renew- Amazon basin—there is increasable natural resources. In ing concern that something must

Concern, so far, has been mainly centred on the threat to the ecological balance of the resources that are becoming exhausted or increasingly diffi-exhausted or increasingly diffi-ares, since trees play such an important part in retaining rain-However, theory does not fall and preventing soil erosion, always equate with actual But, from a strict commercial But, from a strict commercial point of view, it is equally im-portant that "harvesting" of the world's forests is balanced by new plantings of species designed to provide the type of timber required in the future.

In some countries—Canada for example—the concept of the "perpetual forest" policy-with fellings being kept in line centuries. But these standing growing areas, particularly the

Total standing Total harvest Industrial

735

191

67 46

† Excluding fuelwood

is a long way to go. In addition, it is becoming theory, therefore, there should be done to start renewing the obvious that the expansion of supplies to the required level can only be achieved by improved techniques of silviculture, including the introduction of new species catering for particular needs.

Only last month the Overseas Development Administration announced the financing of a study of the ecology of certain pine tree species in Latin America that may help the re-generation of forests throughout the developing world.

The pine forests of Central America are a major natural resource, the announcement noted, not only of marketable timber, but also of seeds in great demand for re-afforestation in tropical countries. The forests are, at present, being severely reduced by land clear-ance, exploitation and fire. Much basic data required to manage and regenerate the

throughout the rest of the world encouraged, in recent years, by the recognition of timber as a renewable source of energy that must be made to help fill the gap as other sources, like oil, run out However, there is a long way to go. producing new species of trees.

forests is lacking. Similar work is going on

It is not just a question of They have to be matched with the growing conditions in par-ticular areas, and also with the

made a great deal of sense on the surface to concentrate on: softwood pine trees to replace the forests cut down in the past. since pine trees are quicker to grow than hardwood and were able to supply a larger percentage of the UK timber require-

Disadvantages :

But it is now realised that concentrating on pine trees had distinct ecological disadvantages in not providing a suitable habitat for wild life or the visiting public and also creating soil problems for agriculture areas nearby. Therefore, hard-woods are being added to the planting "mix."

There are a host of problems to be considered. First and foremost is the suitability of the species chosen to meet the needs of the domestic manufacturing and processing indus-tries. It is pointless planting fast-growing trees if the timber produced is not suitable.

required to provide food. A major problem with natural going into shortening the grow-forests has been that different ing time for trees, particularly species are dotted haphazardly around making it very difficult and expensive to secure specific for instance, some new species types of timber. There is also take only a few years to reach the need to be close to reason-

is the fact that timber growing normally often has to be confined to unfertile land areas. since farming for food usually takes precedence. In Britain, there has been considerable controversy between farming

with farmers resenting the "grew wolf of forestry" eating into available land. This tradi-tional rivalry has been lessened in recent years by the develop-ment of the joint farm and forestry approach, whereby each sector is designed to complement the other.

A proper balance is struck by deciding where trees can be planted to the benefit rather than the disadvantage of food. production, bearing in mind that forestry is a long-term project while farming provides short-term returns.

One of the problems with timber growing is, of course, that it is a long-term business requiring patient investment often in countries that cannot There is also the question of location and preserving the afford to put money virtually balance with agricultural land aside for such long periods.

ing time for trees, particularly the type of species used for pulp manufacture. In Brazil, able transport routes otherwise tage of the local climatic con-the cost of transferring the ditions. No doubt further timber for processing and likely indeed is essential if the

be prohibitive. Above all, however, probably and forestry over the years,

A great deal of research is maturity by taking full advanBRITISH COLUMBIA BW IIS

WOOD COSTS PER TORNE PULP

supply of timber is to keep up with the forecast growth in pulp and paper manufacture.

Timber exporting countries are realising the potential for sales and acting accordingly. In the Philippines it is hoped to create a new timber industry as a by-product to a big new recovery transparing programme. coconut replanting programme.

The Indonesian Government, early this month, announced tighter controls over the execution of agreements to ensure the proper implementation of forest concessions and that forest concessions and that forest lands were recultivated with new seedlings. Most countries are now looking at their forests, and supplies of timber with new interest in view of the energy crisis and the tremendous scope increased wood consumption.

However, it is a slow and costly business, not helped by the ciclical rises and falls in demand for forest products. It is difficult not to see shortages, and much higher prices, in the years ahead.

John Edwards

New attack on traditional markets

OFFICES WITHOUT paper; filing systems replaced completely by computer memories—that is the forecast by the electronic pundits who are in favour of the electronics revo-lution and the arrival of the totally electronic or "paperless"

There are several developments which could result in the partial or total replacement of paper at work and even of household bills. Most of these developments are centred around the use of the ubiquitous

In the office, computers mation, much of which is eventually printed on paper. This includes invoices and other details which usually need to go through the post—only to be fed into another computer so that action can be taken. It is already possible to directly link up computers, via the public telecommunications network, so that it is feasible to send bills direct access to banks has been the inquiry.

or invoices from one machine much discussed, but there has If the user to the other without the need for paper (and postal charges)

computer to the bar company could directly initiate debits and credits, paythrough the computer system, storing all details within the computers' memories.

The concept of the electronic office involves not only external methods of transferring information within an individual building. Secretaries operate keyboards.

Typed information can be corrected and redrafted several television screen. times before it appears in a to be sent to another office, thenit can be sent to another word

Word processors are already generate vast amounts of infor- becoming familiar within mation, much of which is Western industry and commerce, although the totally electronic office is still very much in the future. Many companies have produced word processors which can com-

been little enthusiasm so far directly, then he could also pay about the widescale introduc- for the goods at the same time in between.

This could be further extended by linking up an office computer to the hards Opportunities cations are equally as numerous

ment of bills and salaries, in the home, as they are in the office. For example, in Britain the Post Office has developed a home computer information service,

it allows the sub-

characters appear, not on a scriber to link directly to a sheet on paper, but on the giant computer many miles screen of a visual display unit, (VDU).

giant computer many miles away. He can thus have access to a wide range of information which can be displayed on his

The subscriber has, in effect, final paper form, using an a computer terminal in his home electronic typewriter which is and this opens up many poscommonly known as a word pro-sibilities. The Post Office this could become the basis of cessor. If the document has provides the basic network, but a world-wide electronic mailcompanies and organisations supplying information can pay processor and stored electronia tee to so store data on the cally until the recipient wants system. The subscriber then to read it or to obtain a print pays for the information he requests. Sometimes this data may be provided free, particu-larly if it is considered to be

in the public interest. Since Prestel is a two-way system—a company could offer goods and services to the network and the subscriber could other, thus providing an button. The central computer electronic inter-office mail ser- keeps a list of ell

> If the user places an order by entering a credit card number or a bank number. It might be also possible, eventually, for banks through Instructions could be sent to the banks to directly credit the suppliers, thus creating a new form of "armchair shopping."

Prestel reduces the need for paper in other ways too. For example, publishing companies The system uses two familiar could use the system to supplepieces of equipment in the home ment their activities by supply—the television set and the ing news summaries, classified telephone. With the use of advertisements, and details of coming events.

details of adult education courses, theatre and leisure guides.

It is even feasible to send messages over the Prestel network to other subscribers and service. It would be cheaper than a conventional mail service —and delivery would be more reliable.

Once a Prestel decoder is built into a television set, it can be used to store many other forms of written information, electronically. An ordinary audio cassette can store many hundreds of pages of informa-tion—complete books could be kept on cassettes.

Publishers could use the Prestel network to deliver the text of books, magazines and even newspapers, to be stored electronically, on request, on the subscriber's cassette. The publisher would not need to produce a paper version of the text since he could store the work on a master file-which

could easily be updated. Many of these developments Prestel has only recently been opened as a public service and there are now about 2,500 users. Several trial systems, based on the British design, are in operation in several other countries including the U.S., West Germany and the Netherlands. Canada and France have developed their own systems;

There are some electronic systems which actually encour-

Prestel already provides such age the use of paper, rather to adopt microfilm or microfiche data as holiday and travel than discourage it. For example, systems, in which entire pages details, timetables, price guides, the humble office photocopier, of information are reduced to

many mile away. Facsimile systems have for paper and magazine group, but have had a major impact on the system is now beginning to reducing the use of paper. popularity in commerce. Offices have also been pressed

There is also a growing demand the fraction of their former for a system which allows docu- size on to a liny piece of photements to be transmitted elec- graphic film. Special viewers tronically via a telephone line are required to read back the and reproduced in facsimile, information. Various micro-film system are available, but there is still little sign that such many years been used by news- methods of information storage

Elaine Williams

PAPER AND DEVSPRINT IN INDIA : THE OUTLOOK 1580-1984

This opportunity district to have properly commend and shallysed in a report published by their terral S.A.N.D. HORACTING STRATEGIES LTD. Written by our real in line, this report reviews the current state of the indestry concernating on local production and imports and project distinct expension and opportunities. The reports sandle scalings at 1775, or at the inclusive price of a consultation was at 2700 from our new office.

NEWS FORESCI Finland is a country of forest products. One of the leading companies is Kajaani Oy. Kajaani, its prodection capacity is start operating to mid 1982. Kajaani Oy's facilities are located in the north of Finland. Here we convert the wood, known for its high quality to sawn products; chemical pulp and paper. The company has three paper machines. PM 4 will incorporate the accommended knowledge of our which mainly produce newsprint and magazine paper. The combined production capacity of the paper machines in 250 000 tons per year. long experience as paper makers and make us one of the leading. newsprint producers in Europe.

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solution Then we movide purpose planned e made equipm embodying the latest technology — delivere time at the minimum cost

create the concept. Holder engineers design or specify the hardware. Holder craftsmen make the equipment in a Holder factory. Holder site empervisors get the That's the Holder "tot

capability" parkage. It's made us leaders in paper-will technology clients worldwide will - delivered on testify to our succe



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Television

No falling standards here

by CHRIS DUNKLEY

enrolled him in the Legion of Honour. And in 1980?

In 1980, fhanks to television, European music had "advanced" Johnny Logan as he sang:

'Ah bin wading' Search a long time Looking out fer you But shore not there What's another year."

And they could all see that Mr. Logan wore a black opennecked shirt, a white suite, a black mourning sash presumably indicating that all the wading was in vain, and an expression suggesting incipient book reviewer.

When he finished the song Terry Wogan, the BBC's ulti-mate weapon in the ratings war -a sort of one-man MIRVremarked that if the judges went for less of the boomhang a bang" this year and more for a ballad then Mr. Logan's effort ought to win. Sure enough, after the usual unconscionably tedious polyglot point totting, it did, proving that the BBC knows its Wogan, Wogan knows his Logan, and Logan knows his audience.

Or rather the Press officer of Radio Telefis Eireann knows his audience; he it was who wrote the song and, according to Wogan, paraded at The Hague in a tee shirt declaring: "It is imperative that I win

this contest.") Above all, though, the Eurovision Song Contest proved yet again that with television the size of the audience varies in inverse proportion to the ghast-liness of the programme. But production was under-lit for important point is that the combefore getting too upset about television, and the interval petition represented a granite

Mirror" will be read by a rela-

There is, however one in-teresting difference: while European music had "advanced" serious arts pages and review to the point where 450m people sections continue to ignore pulp could listen simultaneously to fiction and mindless theatrical entertainments even when they attract the largest audiences in their fields, television's equivalent rubbish receives more and more attention, serious and otherwise, simply because The Eurovision Song Contest and its like get into everyone's home, critics and commentators' included, whereas nobody bothers to supply a copy of "Cupid Turns Kilelr" to the

> The consequence is that the discriminating minority, seeing television's meretricious content attracting as much attention as the meritorious, start to bemoan declining cultural standards. They point out that in 1680 Europeans were listening to Monteverdi's Orfeo. . . and forget to add that this was true only of a tiny minority and that the public at large were far more interested in the balladeer's latest catchy little num-ber called "Lilliburlero" or whatever.

> Furthermore, they forget to add that while the average 17thcentury citizen was lucky if he even knew of the existence of opera, virtually every one of the tens of millions of Britons who watched Saturday's song contest could have chosen instead to water a recording of the New. York Met's new production of Manon Lescout, which ran simultaneously on BBC 2 with

luck—for a few weeks while the uast fortnight to the inspirgraph of at the Windmill goes into its fifth year.

Start partial some negative for a few weeks while the uast fortnight to the inspirgraph of the Year of shallow trivia represented by contest which has been screened such BBC ventures as darts comone inwhile
review
the sheer pleasure afforded by
the sheer the performances in the various

> is so familiar and, further, to group of people who, elsewhere in their lives, are still milk monitors and Girl Guides.

In place of some of Hum-

rounds and categories of this

phrey Burton's kindly intended sive straining towards the banal presumably in order to avoid 'elitist" musical comment I still keenly redolent of an era. would have welcomed a few straightforward bits of information such as what exactly you have to do to produce sound from an oboe—the instrument with which 18-year-old Nicholas Daniel deservedly took the title-or whether cuts are a know the soloists. But I do recognise that he faces a problem similar to that of sports needs of experts and novices

that we should remember that material was pretty poor. But outcrop of quality on the mar-the same applies to almost all the singing was good and it was garine mountain of competitions garine mountain of competitions financed by the BBC which have forms of art and entertainment. there in your sitting-room in financed by the BBC which have A marvellous book such as stereophonic sound on Radio 3. merely quantit—i.e., ratings—Barbara Tuchman's "A Distant What is more, it was only last as their object. Though there

year that BBC telivision made is a lot they have yet to do for Orfeo itself available to practice similar promotions in dance, listening to Monteverdi's Origo. tively tiny minority of people Origo itself available to practic fin 1780 they were listening to while Harold Robbins' latest ally the entire population.

Gluck's Iphigénie en Tauride product will be consumed by More important still, it seems millions. The RSC's excellent to me, has been the properly contest is at least a wonderful extensive coverage given during start in putting some depth of the uast fortnight to the inspiration of shallow trivia represented by

> of pessimistic comments in this column earlier in the year, competition as the parade of television has also been supply-youthful virtuosi was thinned down to Saturday's final four.
>
> Watching such an astounding amount and various of the standard instance. Simon for the year, television has also been supplying the first and the standard of the standard of the standard of the year, television has also been supplying the standard of the year, television has also been supplying the standard of the year, television has also been supplying the year, television has also been supplying the year, Watching such an assument made a visually impressive juday by day it would be difficult of his three part adaptation of the Carlo of Eden for Yorkshire It is humbling yet powerfully duffie coats and maroon drape uplifting to hear so much that jackets to clips from The Grove Family and old pound notes to be introduced to so much evoke the period. The uptight utterly unfamiliar music, all of Englishness of the story of it played with such skill by a adolescent development is particularly intriguing as a contrast to "Catcher in the Rye" which describes the same subject at the same date from a strkingly American viewpoint. The Gate and strictly non-partisan of Eden has been somewhat slow remarks and his almost obses- an dsometimes literary in tone (I' found myself thinking what

A Ouestion Of Guilt was an excelent eight-part BBC2 serial written by David Livingstone and immaculately directed by Paul Anneit, telling the nasty but fascinating story of a classic Victorian middle-class murder, the production being marked by hazard of fast cello fingering, all the scrupulous accuracy in and how well the accompanists detail that we have come to associate with BBC costume drama at its best.

a good novel it would make) yet

Set in a later period, and commentators trying to bit directed by Mike Radford in a some median point between the much more spare style, was Sunday night's The White Bird Passes. This too re-created a true story-of poverty in a Scot tish slum of the 1920s-and featured memorably poignant performances from Vicki Masson as a nine-year-old girl and Isobel Black as her beautiful but syphilitic prostitute mother For the end of his story Radford went to the actual subject of the drama, Jessie Kesson, to produce an interview of such extreme professional integrity

(no cutaways, no reverses, not event a dissolve, only fades to black) and so static than it was positively austere. Yet the neartstring-tugging period drama and the modern interview worked surprisingly well together_

Remember that BBC1 "Play For Today" in the same week was The Executioner by Lionel Goldstein (a name new to me. but one to remember) and it plain that there is no justi fication for complaints about falling standards. This masterfully constructed, absorbing and thoughtful work about the nature of self knowledge and the need for the older generation to remember and describe the Hologeneration to listen, was the best single play so far this year.

No doubt it attracted a mere

14 per cent or so of the audience amassed by the Bomm-Bang-A-Bang brigade but then it is almost certainly more than Monteverdi's Orfeo has yet managed even adding together all its performances since 1607.



Covent Garden

THE ARTS

Die Zauberflöte by MAX LOPPERT

Monday's revival of the year old Royal Opera Zauberflöte lacked real distinction. August Everding's production rehearsed now by Christopher Renshaw) is busy with ideas, a few original and interesting, some mildly and harmlessly inventive, too many irritating facetious and cute. Like the designs of Jürgen Rose, a jumble of rococo and earl-Romantic styles and manners of similarly mixed quality, it is a production eclectic in a way that decorates rather than illuminates the subject; there is little that seems to spring from fresh, thoughtful engagement with Mozart or Schikaneder. The effect of the performance as a whole wa sneatly contrived skimming of surfaces releasing neither the bubbles of sublime of sublime meriment nor the flashes of solemn and piercing beauty by which a successful Flute is measured. Stronger musical

might have supplied the much-needed ballast. James Conlon, the young American conductor, has clearly given the score much consideration, for he brings to it a careful, serious approach-of that, the precisely weighted and differentiated accents, rests, and phrase-shapes in the overture were immediate proof. His first London Flute, correct in the German signification of the word, wanted colour, dramatic dimensions. The production energy, and variety. The arias does not stretch Mr. Allen's energy, and variety. The arias cried out for more thrustful moulding. The dialogue Flutes have done (and surely between prince and old priest something altogether spicier gathered little intensity. In the was intended for the final duet second act, where the seasoned Mozartian manages to sustain kitsch-and-coo routines?); even momentum through difficult so, the easy theatrical command changes of scene, the feeling and the warm, sharply focussed was fragmentary—the chorus baritone remained reliable "O Isis und Osiris, welche sources of pleasure. A veil on Wonne!", particularly, went off the tone (some unannounced Robert Lloyd's Sarastro was at half cock. Mr. Conlon is a affliction?) prevented the first firm, mellow, and dignified. musician of undoubted gifts; on London Pamina of Kiri te Decked out in hostess garb, the



Kiri te Kanawa as Pamina and Thomas Allen as Papageno

Of a mainly proficient cast only Thomas Allen's Papageno operated consistently in three abaundant comic talents as other

of courtship than Everding's

the presence was sweet and test was noticeably weakened by girlish, but the expected housefilling radiance was missing, ing of the Queen herself Stuart Burrows' long-familiar (Zdzislawa Donat) and by an Tamino has retained its poise unacceptably soubrettish First and smoothness, if not its re- Lady. Donald McIntyre's and smoothness, if not its re-membered youthful ardour; in the portrait aria the style was soft-centred, and sentimentality and telling. Miss Donat apart, was only just kept at bay.

The outfitting of the priests obvious as a nudge in the ribs, was not one of Everding's happier fancies; in voice at least, Robert Lloyd's Sarastro was

this evidence, his engagement Kanawa from fulfilling all its Queen's party was allowed little to conduct Die Zauberflöte at promise—there were many greater physical conviction; in Covent Garden seems premabeautifully taken phrases, and any case, this side of the conthe mousy though accurate sing-Speaker and Robert Tear's First it is a cast of native English speakers. The fact that the in frock coats, the suggestion delivery of the German dialogue of a Freemasons' Lodge as reaches a commendable general level failed to banish thoughts, during some of the evening's troughs, of how much more vivid and immediate an Euglish? language performance might have been.

Royal Exchange, Manchester

Blood Black & Gold

by MICHAEL COVENEY

You sit there not so much of snow-white dancing girls substantiation scene at the altar. descend on a mysterious fair-ground wher ethe leather-clad fart of Pharoah" only to rise at waltzer boys have direct access to a Gaelic nether world of bearded witches, defrocked alcoholic priests and geological bowel movements. On one level it is like The Boyfriend sifted through Euripedes and dipped in a pot of David Rudkin at his most infuriatingly mythological. On another, on ethinks of the Dybbuk, with the Jewish with the dancing instructor (the all the intervening guff about dancing girl meeting her fate excellent Carmel McSharry) only man becoming God or man contast a chiefe of God in the arms to be consumed by a festival trolling the universe. By the of a subterranean Nijinsky who is first seen hovering at a

rehearsal room window like the spectre of a cankered rose.

Gerard McLarnon is the author

Elizabeth Hall

If ever there was an odd and he marshals his threatrical (Clare Higgings) lies down for Irish stew of a play this is it. someone who knows what he's re-born clergyman, the bull up to. If only I did. The priest following the stor yas ticking is choking on God, having legs emitting the chant "Eat us, off the ingredients, as a troupe achieved a horribly literal tran- eat us, eat us, etc." production might have held the incantation of the bearded

Perhaps Braham Murray's

together more coherently if Silver the priest had been played however hard (like the play) have fitted the bill. As it stands, and is, in turn, swallowed. The you end up waiting for each King of the fairground boys new splutter of stage fireworks (Nick Stringer) makes a match and not listening too hard to with the dancing instructor (the all the intervening guff about bull. The witch and her coven end, the introductory setting of penetrate the underworld in a decorous arts festival being search of the priest, and a huge absorbed in the real rough world black gauze tent closes around of a fairground has long been them. Off they go and, as Judith forgotten.

Patricia Conti

Wigmore Hall

The second, most enjoyable half of the recital given by: trundles on with ten pairs of Patricia Conti at the Wigmore, Hall on Monday night was devoted to French music. Though officially a mezzosoprano Miss Conti has a weak lower register and the witch, played by Dilys Hamlett with an intensity more manic lack of resonance just where with the subtlety of Cassandra than is supplied by John Watts. it was most needed, combined on speed, spewing her lines as Judging by an alarming, wide-is gargling iron filings.

Judging by an alarming, wide-with mushy German diction eyed portrait in the programme, rendered ineffective her rendered interpretation of Schumann's Frauenliche und Leben before the interval. Even the authoritative playing of the piano part by Geoffrey Parsons could not have this performance.

With the change of language

and style to French, the singer, though her declamation required a firmer line, fiercer. attack and, above all, crisper enunciation, was able to communicate her evident liking for the works that she sang. La Mort de Cléopâtre, the cantata with which Berlioz failed for the second time to win the Prix de Rome, covers a wide range both emotionally and musically. Miss Conti could not plumb the emotion any more deeply than she could sound the lower notes, but the top of the voice rang out freely and she shaded her tone appropriately, producing the authentic colours of the Berliozian palette.

Two songs by Chausson, "Les Papillons" and "Le Colibri," needed more strength as well as greater delicacy, although both the Butterflies and the Humming-bird benefited from the pianist's light though firm touch. For "Chanson perpetouch. For "Chanson perpe-tuelle," also by Chausson, Miss Conti and Mr. Parsons were. joined by the Ealonian String. Quartet. In this fascinating piece the singer gave welcome signs that she could, with much more careful attention to the meaning of the texts and the pronunciation of the words, become a rewarding interpreter of French song.

ELIZABETH FORBES

St. John's, Smith Square

Anne Queffélec

Miss Queffélec gave the BBC richest-textured lunchtime recital on Monday in place of the indisposed Michel Béroff, and managed to keep a part of his programme—several of Debussy's Etudes pour le Piano. Her keyboard address is quite different from his, being specifically feminine. unassertive, indirect, full of chiaroscuro.

Nobody would play Debussy's Etudes as if they were technical studies; none of them would survive such treatment. They are studies in sensibility par excellence, and Miss Queffelec explored that vein exclusively. The repeated-note study was therefore more whimsically suggestive than brilliant, the study in fourths purely liquid; the octave study was really too lightly flicked at to sound joyeux et emporté. In the

strength was sometimes unequal to keeping the many levels lucid, but there was always a subtle imagination at work-and there were no smudges in the silvery whirl of "Pour les huit doigts."

This was poetic playing, certainly, and in Brahms' Variations and Fugue on a Theme of Handel Miss Queffelec offered more of the same. At its first appearance the theme was reflectively shaded, not set out candidly as the subject for later deliberations. The varia-tions were developed with conviction, and with some power: the hunting-horn variation sprang away with fine resilience. The final fugue began slowly and tentatively, and steadily acquired breadth.

BAM Theatre, New York

Barbarians

by FRANK LIPSIUS

barians three years after Lower Depths as a study of the effect of emomunications, and in particular the railways, on rural, hidebound Russia. David Jones directs his BAM company as though the subject were a volup-tuous and vivid boating party and shadow bring a number of characters into delightful relief, tor's Royal Shakespeare Com-pany production of Summerfolk, which won an award when produced in New York in 1975.

The chief engineer, played by John Seitz in white suit and Ascot, manages to disrupt the claustrophobic serenity of the th. unnamed town by dint of sheer for whom railway, Gorky has us exuberance, quite apart from believe, means little more than his job to bring the railway another subject to titter about. mula is a well-known one in early music circles, but it was employed with a welcome sense

Maxim Gorky wrote Bar- through. John Polito, who has become typecast in hard-hearted roles, plays a professional col-league with a determined meanness that contrasts well with the town's superficial civility but makes him less believable in

his obligatory third act romance. These interlopers do well in the heightened colours and spirit of Jones' direction and Andrew Jackness's set. But the gessipy triviality of the townspeople wilts in the glare. Each character has a trait that he comes to embody with all the subtedely of a television commercial. A cast of 23 fills the stage with these provincial, shallow, starry-eyed non-entities

The music of the Spanish of proportion and discrimina-Renaissance offers an overabundance of material worth reviv-ing. The greatest difficulty

investigators of the period have. after selecting and editing the music, is ordering for concert performance in programmes and in halls far removed from the music's original social function and acoustic setting. Philip Pickett's imaginative selection of secular music from the time of Ferdinand and Isabella, Cancionera Musical, presented by his New London Consort at the Elizabeth Hall on Monday night, opted for variety and contrast, and made it work. ach half of the concert was framed by noisy, concerted works using all the cornetts and sackbuts at the Consort's disposal. Smaller groups of players were used to present the same dance or chamber pieces in varying instrumentations, and each half included vocal and instrumental solos. The for-

tion on this occasion.

New London Consort

One liability is individual musicians are not afforded the opportunity to settle in and establish a continuity of mood, as they would in a traditional recital. Sharp shifts of instrumental colour and texture work against cumulative effects and each separate piece must consequently establish its interpretative content as quickly and precisely as possible. David Roblou's slow, laboured harpsichord playing of two Cabezon dances suffered within this context; one felt he was still playing himself in and would relax into better performances if given the chance. As it was, his continual shift-ing between four keyboards could hardly promote calm and concentration. By contrast, Tom Finucane's lute and vihuela playing grew in fluency and blossomed in his one solo. a subtly phrased and coloured account of Josquin's chanson "Mille Regres," transcribed by Luis de Navaez.

tive contribution to the success of Catherine Bott's and John Potter's perfomances. "Glaros y frescos rios" by Alonso de Mudarra was marvellously sung by soprano Bott. The urgency her delivery, heightened by well-supported chest tones easily integrated into her clear middle register, made one want to bear all thirteen verses of bleak and compelling ballad, not just the five ventured on Monday. Potter's fluent and easy tenor, and his natural communicativeness made easy work of the "Romance de Abindarraez," a Moorish tale by Diego Pisador.
Most of The New London

Finucane and harpist Frances Kelly were excellent in support

Consort's musicians are well known, experienced hands on the early music circuit. The success of this concert was due in no small part to Pickett's ability to encourage an overall unanimity of style and delivery

RICHARD JOSEPH

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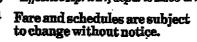
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Wednesday April 23 1980

When jobs are over-priced

THIS RISE in unemployment to a post-war April peak is sadly predictable, and on present trends is only the first of a series of records which could stretch out for many months to come. The combined effects of lagging productivity, run-away wage increases and a strong pound could have no other result. What is just as predictable is that this result should provoke attacks on the policies which are thought to have produced it. The Government, which has shown some single-mindedness in imposing these policies, is now facing its real test.

Education

It is of course a gross oversimplification to say that mone-tary stringency has led to unemployment. As the Governor of the Bank of England reminded the House of Commons Treasury Committee on Monday, in a slightly different context, it takes two to tango. If wage bargainers had taken due note of monetary policy and its implications, especially for exchange rates, the outcome would have been very different. An initial cut in real wages would have led in due course to lower interest rates-themselves a considerable burden on living standards—as well as lower prices and greater competitiveness. The previous cycle showed that the virtuous circle set up by falling inflation stimulates activity and quickly restores real income. High unemployment, in other words, is the price of what is so far proving an expensive education in the realities of free wage bargaining under monetary con-

Explosion

Those who argue that there is some other course open have to face two unpalatable facts. The first is that the very behaviour which has made monetary targets so restrictive in terms is equally a guarantee that any relaxation of monetary discipline would result in higher inflation, not higher real activity. Trade unions press for every available penny, and can be persuaded to remember the long-term implications of vanishing profit margins only in petition policy. But these are concerns whose survival appears the steps needed to make the to be at risk. Simply making present policy more effective.

Those who understand this dilemma argue instead for an incomes policy—yet another attempt to impose rational behaviour from the centre, in the face of all our past experience. This would indeed provide some help for as long as it lasted; but the subsequent explosion would no doubt wipe out all the benefit and more. Many of our present problems-notably the huge awards in the public sec-tor—are due to the distortion and collapse of the last attempt at incomes policy. This may be read as the logic

of despair, but as the Governor reminded his herers in the House of Commons, despair can easily be overdone. Some parts of industry seem able to com-pete despite the general pressures, which simply means that they are achieving an international rather than a British standard of efficiency. In some respects, too, the rise in unem-ployment is itself a healthy symptom. The sharp rise in rethan in earlier recessions—is in some cases the result of a failure to compete, but in others the result of a determination to become competitive. When industry is overmanned, it is difficult to achieve an improvement without redundancies: in a depressed world and domestic market, it is near impossible.

Balance

However, there is a much less healthy side to the picture. Manufacturing industry has been driven by competition to settle for lower than average wage increases as well as redundancies; but the higher settlements being seen in the public sector and in some services not only attract labour, but impose a burden on manufacturing through higher interest- rates and charges. Governor has conceded that he is "sad" at the likely prospect of very high settlements in the banks. The Government has banks. The Government has still to find a way of making monetary pressures, which pro-mise long-term good as well as immediate suffering, apply more generally across the economy, through tighter control of the public sector's costs, lower borrowing, and more effective comnot to change it. actually make matters worse. mains no other practical course.

Unease in India

THE unrealistically high growth 'whether it be in giving the gorate that Mrs. Gandhi ahead for new private investannounced on Monday would be India's target for the next five years will only confirm the unease in India about the lack of direction under administration. National output fell during fiscal 1979-80. On coming to power in January Mrs. Gandhi sharply criticised the economic legacy she had inherited from the outgoing Janata administration. The new planning commission has only just been appointed and Mrs. Gandhi was addressing its first meeting on Monday when she apparently pulled out of the air an annual growth target for the next five years of 5 per cent or possibly more-higher than India's historic rate and higher than the target set by the Janata Government.

Juggling

There was no explanation of how this was to be achieved. But rather like Mrs. Gandhi's recent nationalisation of six of India's private banks the new goal smacks of a political juggling designed to achieve short-term popular gain without much concern of how to meet in the long run the popular expectations that have been

During her previous Premier-ship Mrs. Gandhi was prone to substitute eye-catching slogans such as garibi hatao (remove poverty) for well conceived measures. In many ways her domestic problems are far greater than she had anticipated when she returned to Assam and the north office. east are in a state of simmering insurgency; price rises which were temporarily slowed after she came back to power are now moving ahead at an annual rate of 23 per cent; power shortages have brought key industries in the south to a halt; caste violence and industrial unrest remain widespread, and last year's drought is taking its inevitable toll in food shortages in the north.

Cabinet

The continuing deterioration is by no means Mrs. Gandhi's fault alone. But she has certainly falled to inject any sense of urgency in decision taking ahead.

ahead for new private investthe more glaring infrastructural bottlenecks. It is this feeling of drift of allowing problems to pile up, that is worrying an increasingly wide spectrum of businessmen and officials.

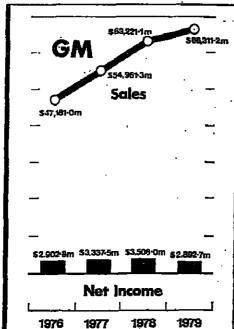
A further worrving factor is that Mrs. Gandhi seems as unable as she was in the past to tolerate advisers around her of stature or of independence view-thus depriving her Administration of an additional perspective that is much needed in so diverse a country. She has still to fill five important Cabinet posts. But so far personal loyalty has been the main criterion of key appointments and seems increasingly to be felt to be the criterion of advancement in the civil service. The judiciary, which was ready to challenge her during the Emergency, now seems to have lost some of its independence. In this vacuum, her son Sanjay occupies a position of increasing promin-ence as her most trusted adviser but with unknown powers. This is another cause for concern.

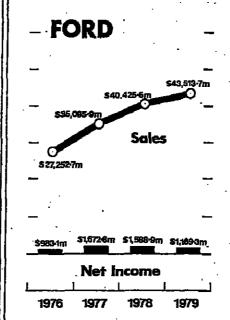
It is arguable that Mrs. Gandhi is biding her time before tackling major economic and domestic problems until she has got the State elections out the way. These are due in nine States at the end of next month and should result in Mrs. Gandhi consolidating her grip on key State administrations. Continuing unrest enforces her argument for the need for strong government.

With the additional power

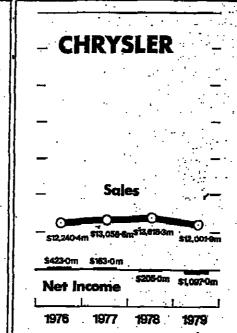
Discipline

she should then have she will in a more impregnable position to take whatever tough measures she might think necessary. But discipline enforced gency will not ensure the image of a united India that Mrs. Gandhi wants to project abroad. The basis of the strong foreign policy to which she aspires must be confidence at home in the way her Administration tackles the difficult when business risks are already economic and social challenges

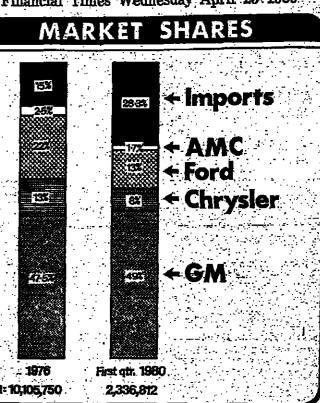




THE FINANCIAL FORTUNES







Where Detroit got it wrong

BY IAN HARGREAVES IN NEW YORK

THIS week, three employees of the Foremost Insurance Group of Grand Rapids, Michigan, bought new

each vehicle made by the company on one condition-that the new cars should be made in America.

This was good publicity for Foremost, which in a country which prefers high wages to promptly claimed The move was also presented as a straightforward piece of flag waving for Michigan's and America's most important manufacturing industry, an industry which contributes one-sixth of the country's gross national product. Moreover, it is an industry which some people, other than those with a vested interest in its prosperity, are beginning to argue shows signs of permanent dislocation rather than mere cyvlical depression at the hands of Japanese competition.

Noting that this year the Detroit motor manufacturers would well surrender almost a third of the U.S. market to imports, a recent cover story for Business Week concluded: What may be at stake is Detroit itself -at least in its present form." A few days later the motor

analyst team at Merrill Lynch, New York's biggest securities firm, commented drilly that the appearance of such an apocalpytic article in such a prestigious this case. Merrill withheld its " buy " four plants and shed 1,500 range above this. people, causing Merrill to con-

shares in 1956.

For the car makers, the pic-One of the inducements for ture is as grim as it could be them to do so was a \$200 con- Over 200,000 hourly paid people tribution towards the cost of are indefinitely laid off—more than a quarter of the industry's workforce. In the city of Detroit, the unemployment rate is pushing towards 15 per cent (against the national figure of 6.2 per cent). And the Labour Department fund used to pay workers out out of a job by imports is about to run out of money, mainly because of the cost of paying displaced car workers.

history of what went wrong is a painfully worn theme for Detroit, but that did not stop President Carter re-iterating it at his Press conference last week. He recalled the day in



1977 when he had sat in the Cabinet Room with the top executives of the industry and beseeched them to build smaller cars "to help the country save energy." unanimous reply was that this was an inappropriate thing for them to do-that "the market was not there for the small and efficient automobiles."

But in the year to April 10, 51 per cent of all the cars Detroit sold were in the compact and subcompact classes (a year ago the share was 42 per cent). Imports which are almost publication would normally be entirely subcompacts, took over the right time to think about 26 per cent of the U.S. car buying motor stocks. But in market in the first quarter of this year. A typical subcompact. signal and a good job by the American definition. too. because a few days later would be a Ford Fiesta, and a Ford announced plans to shur compact is the European size-

This miscalculation about the clude that Ford will probably cost of petrol and its effects clock up a worldwide loss of upon the American public's \$300m this year, against a \$1.2bn taste in cars-a change stimulprofit last year. ated early on by tough federal Early this week Ford's share standards on improving fuel price was trading in New York efficiency — was what sent standards on improving fuel

dealers and would-be buyers as well as for the motor companies, which are staggering under the burden of a more than \$12bn a year capital investment budget, needed to rip out the old production lines and replace them with machinery to produce cars

the public is prepared to buy. The worry is the familiar one of cyclical recession, which is already driving down real disposable incomes and which Ford now expects will cut total retail car sales this year to 9.9m units, 7 per cent lower than last year. The forecast looks optimistic, but assuming it to be accurate, it means that after allowing for imports, the four U.S. companies will be fighting over a market of around 7m cars, compared with the 8.2m they sold last year or the 9.3m the year

In the motor industry lower

volume means lower profits, as letters Detroit has amply demonstrated in the last six months, Chrysler, the third largest company, has been financially crippled, losing upon the graces of the Govern-rellable, the range more varied ment for its survival. Ford, and the performance superior, the number two company, lost This self flagellation, which money in the final quarter of last year, will lose a lot more in the first half of this year and would be losing even more but for its profitable non-motor operations and its successful motor subsidiaries outside North America. It saw its working capital drop from \$3.1bn to \$2.3bn last year and has as a result seen its credit rating which means it will have to pay more for the money it borrows to finance its re-tooling.

General Motors remains the line, and its problems are cyclical rather than structural at its lowest point since 1959. Detroit plunging into recession at this stage. Even so GM will products as much as it likes the Ir was also lower, without taking last September when the rest of probably not be able, as is its foreign cars. By 1985, at the end

dividends in corporate America. It is already evident that the

industry's production rate in the next three months will be slightly below that of the same period in 1975—the year of the industry's last slump. Indeed output looks certain to strike a 17-year low, which makes this a very severe recession indeed even without further blows. But that does not mean the end of Detroit as we know it,

however much it may feel that way to the lines of people outside the welfare agencies in that The conclusion that irreversible changes have occurred is based first on an impression

and second on an analysis.

The impression is that Americans cars are no longer as good as Japanese cars which account for over three-quarters of the imports). The radio chat shows and the local paper columns disgorge a stream of disgruntled customers' comments about the inferior treatment of warranty claims by U.S. manufacturers \$1.1bn last year and ending the compared with the Japanese year with negative working firms' dealers. The Japanese capital and is now dependent product is said to be more

goes hand in glove

declining U.S. labour produc-tivity (which is a fact rather than a feeling) is gruesomely. The analysis is that although in the 1981 model year, which starts in October, the U.S. manu-

facturers will be producing 3m units of smaller front wheel industry's Titan, holding its drive cars, this will not be market share because it does enough to prevent another have one successful small car bonanza year for the importers -even if, and it could be a big if, the Public likes Detroit's new It was also lower, without taking last September when the rest of probably not be able, as is its foreign cars. By 1985, at the end Chrysler now has a labour union years, the two leading companies of one of the biggest capital into the company is drifting towards. Stronger contenders as a result.

drove up interest rates, which a result, there are fears of a per cent of the engine capacity caused major problems for car cut in what is normally con- of the U.S. companies will be sidered one of the most reliable the smaller four cylinder type. Even allowing for some imports from engine plants in South America and elsewhere, this indicates the period during which Detroit will be struggling to fill its small car gap. It also indicates the huge scale of the plant owned b ythe U.S. com-panies which is now rapidly passing into obsolescence. iWthout doubt the three assembly plant closures announced so far this year (two Ford, one Chrysler) will be added to in the next two years. And if the economy does not turn sharply upwards by the middle of next year (the most pessimistic assumption in Detroit) the fin-

ancial pressures could become verey severe indeed. A bigger problem is that-Detroit has to learn how to make money from small cars. As re-cently as last autumn Mr. Lee. Iacocca, chairman of Chrysler, was telling Congress that this was impossible, or at least that margins would be too slender to support the overheads of a

major U.S. company engeded in a large spending programme. Now Mr. Iacocca is apparently erady to make Chrysler the first European style2" motor manufacturer, with just two basic model ranges, both of them

The comparison with Europe

is one being studied hard by Detroit. Ford knows it at first hand and it is no accident that the men recently shuffled to the top of Ford's executive tree all have experience of running Ford Europe. GM is less well placed in this respect, although now rapidly expanding overseas. For I, if it can survive there is the hope of a growing rela- Volkswagen-VW of America. tionship with Peugeot-Cirroen. Peougeot-Chrysler and Renault-For American Motors there is its proposed joint assembly plans with Renault, and Volkswagen the prospect of expanding its U.S. base and broadening its attack on the market.

There have been other Euro-

than the day when the Ford consequences. The inflation to outside funds this year. As by any U.S. industry, only 40 state ownership to stave off-family first offered the public drove up interest rates, which a result, there are fears of a per cent of the engine capacity bankruptcy. The U.S. Governance to buy Ford Motor caused major problems for car cut in what is normally con- of the U.S. companies will be more the becoming more than the becoming more than the companies of the U.S. companies. bankrupicy. The U.S. Govern-ment is becoming more prethrough the anti-trust laws then growth into potential monepolies. There is an inclination think of some form of protectionism. From the European point of

view, the assumption is that Renault, Pengeot-Citroen and Volkswagen have nothing to lose by pursuing their U.S. ambitions. Whatever the problems of U.S. labour costs compared with those of Japan, there

General Motors Corporation

is no significant differential with Europe; the U.S. continues to offer the largest and most sophisticated car buying public in the world and so far at least the investment by European companies has not been

These perceptions, however. will change if Detroit does succeed in matching the for-eigners' small cars in price, quantity and quality (only the last point is in doubt). Then it will be a question of which manufacturer builds small cars most efficiently and most battle for supremacy in the world car."

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It is too early to tell who will come to the top in that struggle. But, if one accepts the argument that only the biggest will survive, the leading contenders look like being Ford, General Motors, Toyota, Nissan and the Euro-American companies still in the process of formation— American Motors.

Detroit may not be finding much pleasure in the education it is receiving about fuel economy in cars, but if it can bear the pain of the beating it looks like suffering in the home. pean type developments too. market in the next two or three

MEN AND MATTERS

Delving in the DoT dustbin

As jumble sales regularly prove. there is always someone prepared to give a home to other people's junk. Further proof, if it were needed, comes from debt cullectors to the world, Dun and Bradstreet, which has launched a short, sharp campaign to rescue the Registry of Business Names from the dustbios of the Department of Trade.

As I revealed earlier this month, the Government has decided that it can do without the 2.5m index cards which have accumulated in the registry's files since 1916, and that the 85 staff who tend this white elephant will be better employed elsewhere in the Civil Service. Dun and Bradstreet, based "business information" company with a strong sense of history and a daily need for the facts stored in the registry, wants it saved and taken over by a consortium of companies and trade associations.

" People like the Law Society and credit reference agencies like ourselves find it invalu-able," says public affairs officer John Dawson, who has until June 30 to rally support. Proof of its value, he claims stems from the records which show that 130.000 to 140.000 new names are registered yearly, 30,000 changes are made and 180,000 visitors call in for information and willingly pay the search fee of 5p which has been unchanged since 1916. His own company makes up to 40,000 searches a year in the

"Without the RBN," he tells "it would be extremely through the type of iron glove difficult to ascertain the real she displayed during the Emer-owners of a business. It would owners of a business. It would be much easier, for example. for disreputable businesmen to mislead their creditors and others by providing false information. This could bring a serious element of doubt into business dealings at a time on the increase." The commercial world may do



I won't be back until 1985."

well to pay heed. Dun and Bradstreet has a reputation for perspicacity: in 1972, for instance, it warned with pinpoint accuracy that British Leyland would find itself in bad trouble some time after 1974 and would eventually have to join forces with a Japanese

First move

"It might be worth a slight increase in salary to keep me here so we can win some more," said Len Jolley. "But I doubt it." Basking briefly in the office spotlight yesterday, Jolly was with staunch support for the reflecting on his victory in a re-election of the durable crucial match on Monday night which enabled his employers, Simon and Coates, to carry off back to scratch in time for the the Stock Exchange chess trophy. With five zoards drawn. his win over Michael Brookes scooped the prize from under the nose of favourite firm Phillips and Drew.

Winning captain Eric Leynes now takes possession of the Castello Parsons Trophy which has not left the offices of Grieveson. Grant since the annual journey was started five years who started selling meat from a ago. It should strike a nicely van 11 years ago with £500 and cerebral contrast in his firm's last year sold a chain of super-

display case which to date has markets to Tesco for almost been filled with cups from vic-tories in the less gentle art of But

Fidelity's reward

Len Murray and other big wheels in the union movement may care to reflect for a moment on the benefits which can stem from intimate relations with government. A prime example is provided by Mexico's veteran trade union leader Fidel Velasquez. Eighty tomorrow, he will today be re-elected head of the Mexican Confederation of Workers for his eighth successive six-year term.

Don Fidel, as he is respectunion movement virtually unchallenged for more than 40 years and says he has every intention of staying put until be dies. In the Byzantine world of

Mexican politics, holders of high office come and go every six years and are not allowed to stand for re-election. But Don Fidel has survived seven presidents and shows every sign of carrying on under the

election record seems to lie with in 1976, for example. h called on his massive following to supoprt the presidential candidacy of Jose Lopez Portillo. Duly grateful, President Lopez is now reciprocating Velasquez, who, no doubt, will shortly be looking for a new next presidential poll in 1982.

Disney rival

"If you cannot make something work on half a million quid,"

Law Cartier once said, "then Lew Cartier once said, "then the chances are that it's not going to work at all." A forgiveable exercise in hyperbole. I suppose, coming from the man

But the 34-year-old lad from Margate plans to find vastly more than £500,000 on his latest venture : omre like £200m to be exact. That is the projected cost of a graudiose "theme park" scheme Cartier will announce later this week. Far from his native beaches of Margate, the young entrepreneur is bent on establishing "Little England" on a 1,300-acre site in Florida. According to documents filed with the Florida planning council, the first part of Little England will open in 1983 and pander to the Americans' insatiable hunger for things historic. Although the main fully known, has ruled Mexico's attractions will have a medieval character, Cartier seems intent on painting his picture of Olde Englande with a broad brush.

Prominent among the castles and jousting displays will be Stonehenge (it has been around for some time, after all), 500 modern luxury homes, shops specialising in all things English, and a golf course.

Sole suppliers

The key to his remarkable So far behind the rest of the world in most fields, I am happy knack of getting on the to report that the Chinese are right side of political leaders. one step ahead in the area of to report that the Chinese are insecticidal, fungicidal and pharmacological footwear. Yesterday's Canton Daily boasts that so far this year the People's Republic has exported more than 40,000 pairs of special

> A perfumed, herb-based pow der is laminated into the soles. the paper say, "which protects against insects and moul and stops feet sweating. If worn for long periods, they are also useful in curing beriberi."

Down to earth

Spotted on the wall of a men's washroom in a Coventry factory: Shop stewards are requested

It's a fact

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AS UNEMPLOYMENT REACHES A POST-WAR PEAK, PETER RIDDELL REPORTS ON THE EFFECTS OF THE TREASURY'S POLICIES

Monetarism: inflation slow to respond

attempt to cut the inflation rate through a tight monetary squeeze is not working according to plan. Admittedly, it was inflation between early 1978 and never expected to he painless spring 1979 always looked or to produce rapid results. But slightly artificial. to date the level of wage in-creases has accelerated, not slackened, and the 12-month rate of increase of retail prices has doubled to nearly 20 per

+ imports

-AMC + Ford

- Chrysler

+GM

Some of the upsurge can be hamed on the policies of the last Government. The sharp increase in oil and other commodity prices is also part of the explanation. But this is not the whole story, nor is it any help in trying to lower inflationary expectations ahead of the next pay round. Indeed, the big unions are already talking about next winter's claims at their annual conferences which are now starting.

This accounts for the series of nervous Ministerial statements over the last week. The money supply may at last appear to be coming under control but the headline newsfrom the official prices and earnings statistics is still bad and is likely to get worse for at least a few more months.

Critics of the Government are therefore not short of facts and figures on which to base the argument that "monetarism" has failed and that something else 'generally an incomes policy) should be tried.

If by "monetarism" is meant the belief that the rate of growth of the money supplycash and bank deposits—is a crucial influence on the rate of inflation in the medium-term, then the epitaphs are pre-

There is little doubt, however,

Government's legacy from Labour and partly at a time of leapfrogging oil inflation rate because of its own actions in price increases economic foreight monetary the June, 1979 Budget. The casters were then able to predict correctly that the 12-month rate

The Labour pay policy had started to break down in the private sector during the 1977taste of what was to happen in the public sector during the following "winter of discon-

The single-figure rate of inflation . . . looked slightly artificial

tent." The coincidence of strong economic activity and the one.

Iranian revolution led to a very rapid rise in oil and other com-

Thus by election time in May the pressures on inflation were strongly upwards. This was not fully apparent then, partly because of the delay before cost increases worked through to the indicator was still, just, in singl indicator of inflation, the 12- demand for sterling. The con-month rate of increase in retail sequent rise in the exchange prices, was still, just, in single rate of the pound reduced the figures. Moreover, there was the cost of imported usual pre-election tendency for British companies. increases in public sector prices and charges to be deferred or monetary squeeze is less clear- on manufacturing.

indirect taxation.

correctly that the 12-month rate of retail price inflation was likely to accelerate into the upper-teens by the end of 1979 and up to 20 per cent by spring 1980. These forecasts were quickly translated into pay claims of well over 20 per cent. The critics of the Treasury

team, of which there is no shortage inside as well as outside Whitehall, argue that all this shows the irrelevance of relying on a monetary squeeze to influence pay bargaining. The impact of the actual or expected rate of price rises is, they say, more powerful. This mistakes the role of monetary policy For monetary policy has had an influence, even though it has so far been a patchy and uneven

tary squeeze is to raise domestic interest rates relative to those abroad. Last year the pound was anyway becoming a "petro-currency" at a time of rising oil prices and increasing North Sea oil production, so the additional attraction of high relative UK interest rates fuelled the cost of imported materials to

held down. As a final twist cut and more controversial. A Labour had bought off some of rise in the sterling exchange "At a this competitive pressure on

AVERAGE EARNINGS 30% 25% RETAIL PRICE INDEX 20% 15% 1973 1976 1977 1979 **'80**

The direct impact of a mone- in resisting big pay claims. The snag is that only part the economy is exposed international competitive pressure in this way. The public sector and much of the service and distribution sectors are not directly subject to these disciplines. Many have the additional advantage of being monopolies and are able to pass on higher costs to their customers.

The monetary squeeze and the strength of sterling are The indirect impact of a tight undoubtedly having an impact

This is supported by the results o fthe Confederation of the winter strikes and disputes rate not only reduces the rela-British Industry's monitoring in the public sector by the tive cost of imported raw of manufacturing settlements in the public sector by the creation of the Clegg Comparative cost of imported raw of manufacturing settlements of imported manufacturing settlements although the size of increases the per cent. The latest survey, immediately added to the pressures with its bold, most would say reckless, switch from direct overseas. The theory is that panies were mentioning the panies were mentioning the There is little doubt, however, to indirect taxation. "At a this competitive pressure on level of profits as a "very that the Government had a bad stroke" this added nearly 4 per prices and profit margins will important "downward pressure start, partly because of the cent to the retail prices index. force companies to be tougher on the level of settlements.

Overall, the CBI survey indi-cated that half of manufacturing settlements since last summer have provided for pay rises of 15 per cent or less. This compares with the disclosure last week by Sir Geoffrey Howe, the Chancellor, that the average level of private sector settlements since the summer had been 18.5 per cent.

The difference expexplained by what has been happening in the non-manufacturing part of the private sector. The pressures from a strong pound are much less there and the consumer boom has boosted profits. There have been some very large pay rises in the financial sector which has so far been more a beneficiary than a victim of high interest rates.

The position is more complicated in the public sector. Many of the pay deals last year been implemented stages, as have the awards of the Clegg Commission. This has

UK: Mr. Gordon Richardson, Governor of the Bank of England,

Mr. Patrick Jenkin, Social Ser-

vices Secretary, speaks at Croy-

Dr. Rhodes Boyson, Education

Scottish Trades Union Congress meeting continues, Perth.

Amalgamated Union of Engin-

eering Workers conference con-

British Rail publishes annual

tinues, Blackpool.

report and accounts.

GENERAL

delayed impact on the earnings received and on the public sector's pay bill. This led to some confusion last week when the Chancellor and his officials told the cash rekuired to finance central Government pay would rise by a quarter between 1979-80 and 1980-81.

Sir Geoffrey subsequently explained that a third of this increase in the expected central Government pay bill represented the full year cost of the later stages of catching-up settlements in the last pay round. He stressed that only 14 per cent more was being provided for new pay settlements in the current round and that the deals so far were consistent with this limit.

is still damaging to the Government's counter - inflation strategy. After all, some people rather than to decrease as the thus still very much on trial—in monopoly nationalised indus-recession deepens and unem-with not that many supporters meant that there has been a tries will be receiving 40 per ployment rises even higher than but plenty of sceptics.

cent more in their pay packets than a year ago and ethers in private manufacturing will be receiving less than a tenth easing in world commore, hardly the best way of prices, notably metals, attracting skilled engineers. These factors coupled

in the current pay round looks like being over 20 per cent. But comfort can be drawn from the limited amount of leanfrogging in the level of wage increases during the round. Moreover, the CBI survey showed that a third of settlements so far contain elements designed to raise productivity. If genuine, these should help in put to hold down unit costs and to prices. improve competitiveness. Nevertheless, given both these pay rises and the pressures from higher oil and raw material costs, the 12-month rate of increase of retail prices is likely to climb from the present 19.8 per cent to between 22 and

For purely statistical reasons the 12-month rate is likely to show a decline when the mid-July index is published in August. This is because the rise in prices caused by last June's Budget will drop out of the 12-month comparison then. The underlying rate of increase—currently at least 164 per cent-may still continue to rise for a few months. Yet there are several straws

to clutch at: we may not be condemned ot a repetition of plosion. First, once the hump of public sector catching up is out of the way the pressures But however much can be from higher Government pay explained away in the public could fall, provided the cash sector, the overall impression limits stick. Second the squeeze on manufacturing industry is likely to intensify

there are already signs of an easing in world commodity These factors coupled with

The end result is that the a tighter and more explicit average growth of earnings monetary squeeze than in the mid-1970s could mean that the worst is almost over. This is certainly the view of most academic and City economists. They believe that both the 12month and underlying rates of inflation will decline after the autumn, though the Government's public spending plans imply continuing large increases

> There is much less agreement about the pace of any slowdown in 1981 and 1982. The publication of Government monetary targets for each year up to 1983-84 in the new medium-term financial strategy indicates the direction of Government policy.

The view of most economists

even of r. Wynne Godley's

gloomsters from Cambridge

in public sector charges and

is that present policies will cutting of the inflation rate. the cutting of the inflation rate. But the "success" may only be relative to earlier fears since the 12-month rate could still be in the low-teens in 1982. Moreover, the Government's critics argue that this would be at the cost of sluggish output. much higher unemployment and a smaller manufacturing base. The Government's view, as the 1974-75 pay and prices ex-plosion. First, once the hump Treasury Committee by Mr. Gordon Richardson. Governor of the Bank, on Monday is that only by lowering inflation through monetary restraint is there any hope of a recovery in output and jobs. "monetarist" approach is

Letters to the Editor

Soviet oil production From Dr. D. Wilson

Sir,-Mr. Walbeoffe-Wilson's opinion (April 16) on the future of the Soviet oil industry joins artificially depressing local the shoe trade, the suggage as Mr. Lyman mentioned, when a long lis tof other forecasts in government wages. Or is he trade, the small leathergoods the oil runs out, or the price similar vein, all of which have suggesting that our public trade, the handbaks trade, and falls, there will be no recovery. been predicting the imminent peaking of Soviet oil production for the last 20 years, and yet it still continues to grow.

Perhaps he has read the thoroughly-discredited CIA report on Soviet oil which was published in 1977, and which based its forecasts on the belief that output from Western Siberia would peak at 5.2m barrels a From Mr. H. Thornton reached a record 5.9m b/d and has been growing very rapidly during the last six months. With the commissioning of the world's largest pipeline later this year, Siberian output should hit the 6.3m b/d mark by the end of this

Soviet oil production will peak more for the housekeeping. in 1981, still less that it will decline by 10 per cent a year thereafter. On the contrary, it will continue to grow, albeit at slower rates, to 14m b/d by 1985 and 15m b/d in 1990. The CIA has already back-tracked to the tune of several hundred million tons a year by 1985, and has implicitly acknowledged that it was hopelessly wrong.

(Dr.) David Wilson. (Lecturer in Soviet Geography.) Leeds University,

Local authority pay

From the General Secretary, National and Local Government Officers' Association

Sir,—While Mr. Murphy (April 17) may hope to earn £12,500 by next July, most of his fellow local government officers will not be so lucky. The average wage is now £4,850 which includes the increases negotiated last July of 9.4 per cent, and a further 13 per cent, the average comparability payment, from January.

It is certainly a new departure to take increases not yet agreed to calculate the percentage over a given period. Mr. Murphy seems to pluck figures out of the air to suit himself. Take a long enough period and you could justify any figure. Perhaps Mr. Murphy has some kind of crystal ball and knows the outcome of this year's wage claim without it even having been submitted.

There are many points on which we must take issue with Mr. Murphy. He seems to accept without question the falacious arguments that are at present masquerading as economic writ. A sustained increase in public expenditure is essential to provide a basis for renewed economic growth and a reduction in unemployment. Treasury estimates show clearly that an increase in public spending of fibn generates nearly six times as much employment after a year as a similar amount released in tax cuts. An expansion of the public sector is the only way for Britain to reverse its economic decline and create conditions for growth. In a buoyant economy there would be no question of someone having to pick up the price-tag,

into local government The comparability study to from Mr. Arthur O. Lyman present

increases of 13 per cent was not industry. I agree one hundred phoney." It was based clearly per cent with what he has said. on the comparison of wages in local government with those in proved wrong. Observers have services should be run to subsidise private industry? Geoffrey Drain. National and Local Government 1, Mabledon Place, WC1.

Depressed by a 42% increase

correspondent from Stockport, Mr. Murphy (April 17), should not be too worried at becoming 42 per cent better off over a 12-month period. He will find out that the 42 per cent will have to last him until June 30, 1981, by which time his wife There is no evidence that may be pressing him for a little

Mr. Murphy should also console himself with the thought that his comparability rise was to compensate him for his losses over a three-year period of pay policy which was strictly applied in local government and may not have been too well applied elsewhere. It is quite likely that by 1984, or sooner, we shall have another pay policy in which Mr. Murphy and his fellow public servants can be expected to suffer, as all good public servants should.

In my 40 years in local government, I have always suspected that we were the most admirable public servants of all. Have we ever seen a letter in your paper from a repentant civil servant, coal miner, teacher, or policeman, about the levels of their pay increases, which, in my experience, have inevitably been somewhat higher than the amount payable to a public relations officer at Stockport. H. Thornton. 133 Oxford Road, Middlesbrough, Cleveland.

Nuclear power

From Mr_R. Mitchell Sir,—I applaud your publica-tion (April 15) of Sir Alan Cottrell's article. He has not glossed over the difficulties and disappointments of the present advance gas-cooled reactor power stations but has pointed out the future benefits to be gained fro mexperience in their design and construction.

While I support AGR's on

safety grounds, financially also appears that the potential arising from improvement in AGR design is greater than that associated with the pressurised water reactor (as this has already had the benefits of experience arising from a much longer construction programme).

R. G. Mitchell. Woodford Green,

Imports of leather

From the Joint Managing or of Mr. Murphy being locked Director, Spartan Luggage Co. - Sir -F have read the letter

I feel however, that he has not explained sufficiently the extent part of the clothing trade, did employ large numbers of people in actual manufacturing, but, in addition, the leather trade itself supported a large number of workers in other industries. Therefore the damage being done to the leather industry by unfair competition referred to by Mr. Lyman is not confined to the members of the leather industry and the various leather users' industries, but actually From Mr. J. Hobbs hits at all parts of British I personally know ten to

twenty experts in this industry, on the manufacturing side, who have realised that they cannot possibly survive as manufac-turers in this present climate, and have now turned their expertise to importation, from subsidised overseas markets, of

which Mr. Murphy refers and (April 19, with very great in those very goods which are help-which produced, on average, terest, as, being in the same ing to kill the rest of the small speaks at Industrial Society conference on facts of British econpercentage of this industry which still remains. I m now omy, Whitbread Centre, London. being forced to believe that we are fast coming to the stage where there will be the comprivate industry. No matter of the damage being done to where there will be the com-what Mr. Murphy may think, British industry as a whole. The plete decline and collapse of there is no innate virtue in leather industry, which includes these industries in Britain, and, the shoe trade, the suggage as Mr. Lyman mentioned, when at Harrow. H. F. Palmer.

Spartan Luggage Co., Pensbury Place Wandsworth Road, EWS.

In place of

were instituted so that tensions between rivals could be worked fields rather than on the battle grounds. Were the ancients wiser than we today? John H. Hobbs.

26, Boulevard des Moulins, MC Monte-Carlo.

The levels of fair rents

Sir,-Mr. Kitzinger (April 17) recommends a further dose of reverse Rachmanism" which would do credit to a spokesman for any of the innumerable housing/tenant pressure groups. The hundreds of thousands of would-be tenants who are denied access to privately rented accommodation at rents mutually acceptable to tenant and landlord alike must feel eternally ungrateful that such myopic perception is the foundation for much which has been embodied in successive Rent Acts. Equally ungrateful should be those of us who subsidise, but do not personally benefit the alternative public provisioning of new building adding an extras £60 weekly per dwelling to the housing revenue account for renting out at less than weekly. I would contend that it is maintenance of parity with these levels of rent, rather than any notion of fairness to the private landlord, that is the prime determinant of rents and, as such, is contrary to both the letter and the spirit of the fair rent concept. Mr. Kitzinger's first improve-

ment to the fair rent concept would be to index the repairs and maintenance element, restoring the remainder to some pre-1973 level. The fraction of rent implicitly attributable to repairs and maintenance is about one-quarter of the total figure. The remaining three-quarters, by Mr. Kitzinger's standard of fairness, would be left to erode at the going rate (being halved every four years at the current rate). But why does he ask for so little? Why not revert to 1957 rent levels which is all that the landlords

of some 300,000 rent-controlled properties still receive today? The second improvement, according to Mr. Kitzinger, is that any change to the present triennial rent review should be such as to extend this review period. Perhaps he has in mind a repeat of the situation whereby, some time into the 1990s, following decontrol under the 1980 Housing Act, the rent officer service and rent assessment committees might just be completing the first rent review since 1957 of such of those 300,000 properties which have not by then died from rent staration. The fatuous observation that a reduction in the three-year

interval would "cause additional worry and work for tenants" is, I would suggest, patentiv untrue since no work is caused for the tenant (other than a brief appearance before the rent officer and, possibly a rent assessment committee) and any upward adjustment will of wage movements during the period to which the review Mr. Kitzinger also deplores the extra workload which would be placed upon the rent officer service by a more frequent (than triennial) As just one counter proposal, let me suggest that that service be dispensed with altogether at a very substantial saving, through the simple device of setting rents annually through direct application of a designated multiplier to the annual rate demand on the rented property; an appeals panel could, by exception, provide an outlet for airing any substantial grievance by either party. This would also sweep away the further discrimination ("phasing") whereby, having had a new "fair" rent fixed, the landlord is then forced to wait until the third year ahead before he is allowed to charge

The reference to year 1973 is presumably to the (August) 1974 Rent Act which extended rent regulation and the fair rent concept to furnished lettings correspondingly disastrous results). Thus, the only comparison that can be made unfurnished lettings. Statistics for the London area show an increase of 77 per cent in the average "fair" rent between average "fair" rent between 1973 and 1979 (first three quarters), the corresponding figure for England and Wales being 86 per cent. Mrs. Kitzinger's figure of 200 per cent for his area is so far out of line with these figures that am left to conclude that he is not comparing like with like. weekly wage rates rose by 153 per cent over the same 1973-1979 period (the RPI indicator by slightly less), thus demonstrating how rent officers and rent assessment committees consistently pervert the fair rent legislation by awarding only about one-half the amount needed even to stand still.

R. Jensen review 11 Stanhope Gardens N4.

Today's Events

congress opens, Folkestone (until Bill, remaining stages. April 25).

Steel Castings Research and overseas sale of defence equip-Association conference opens, Harrogate (until April 25). Sir Peter Gadsden, Lord Mayor Dr. Rhodes Boyson, Education of London, lunches with National Parliamentary Secretary, speaks Federation of Building Trades aployers, Fishmongers' Hall, EC4; dines with Leathersellers' Company, Leathersellers' Hall,

> Overseas: EEC Agriculture Ministers meet in Brussels. Greek presidential election PARLIAMENTARY BUSINESS

Royal Society of Health annual House of Commons: Employ-

House of Lords: Debate on

ment. Debate on nuclear weapons. Concessionary Travel for Handicapped Persons Bill, second reading. Debate on time persons on remand are kept in prison.

vices (Room 15, 4.30 pm). Welsh Buxton Road, Stockport, 10.30.

(Room 18, 4.30 pm); Treasury and Civil Service (Room 21, 4.45 OFFICIAL STATISTICS

Construction — new orders

(February). New vehicle registrations (March). **COMPANY MEETINGS** Anglia TV, Anglia House, Nor-

wich, 2.30. Martin Ford, Winchester House, London Wall, EC. 12. Friedland Doggart, Midland Select Committees: Education (Room 6, 10.30 am); Scottish (Room 5, 10.30 am); Foreign head, 9.30. Molins, London Press Affairs (Room 15, 10.45 am); Industry and Trade (Room 16, 10.45 Rea Brothers, 100 Old Broad Street, EC, 12. Sale Tliney, 28 One Anne's Gate, SW, 12. Hotel, Peter Street, Manchester, am); Public Accounts (Room 16, Street, EC, 12, Sale Tilney, 28 4 pm); Transport (Room 8, 4.15 Queen Anne's Gate, SW, 12, pm). Employment; Social Ser-Squirrel Horn, Alma Lodge Hotel,

1979 · A year of **Substantial Achievement for** The British National Oil Corporation

In 1979 BNOC moved out of its initial development phase and began to contribute substantially to the nation's wealth.

In 1979 BNOC:

Made a profit before tax of

£75 million

Produced and sold oil and gas worth

£265 million Made total sales including participation oil of £3,245 million

Increased its offshore exploration and

development expenditure to

£221 million

Since it was established in 1976 BNOC has spent over £1,000m in exploring for and developing Britain's oil reserves. By the end of 1979 it was no longer drawing Government funds to finance its development, and it is now a large and growing net contributor to the Exchequer.

BNOC now employs over 1,400 people – 85% of them in Scotland. The growing scale of its activities - production from the Thistle field, construction of Beatrice, including a shore terminal at Nigg Bay, investment as partner in 7 other fields, and increasing exploration and appraisal - ensures continuing challenge and opportunity in Britain's national oil company.

Copies of the Corporation's Annual Report and Accounts are available from: The Secretary, للـا5 The British National Oil Corporation, 150 St. Vincent Street, Glasgow G2 المادة.



The British National Oil Corporation

DIVIDENDS ANNOUNCED

July 7

June 18

June 2

July 3

July 3

May 24

May 30

Dividends shown pence per share net except where otherwise stated

Farnall Electronics

Equivalent after allowing for scrip issue.
 increased by rights and/or acquisition issues.

June 12

1:95 4,22

Farnell Elec,

Chas, Hill Bristol J.B. Holdings

Lilleshall

Oxley Printing

M. Y. Dartint. I

M. F. North 0.68

Silentnight Hldgs. 2.03 Spencer Gearsint. 0.35

Steel Bros. Hidgs. 4.85

 Tozer Kemsley
 3.18

 Travis & Arnold
 6

 Utd. Carriers
 3.5

 Wadkin
 4.22

 Websters Group
 1.4

 Wilson Connolly
 3.75

TKM soars to over £16m and this year starts well

PROFITS, before tax. of Tozer Kemsiey and Millbourn (Hold-ings) surged from £7.63m to a record £16.01m for 1979, on turn over of £1.11bn against £0.9bn. Mr. Kenneth Thorogood, the executive chairman, says the cur-rent year has started well and he expects the earnings level to

oe maintained.		
-	1979	1978
-	£000	[2000]
Turnover	1.107.000	900,000
Trading profit	13,230	6,251
Associates' snare	2,783	1,381
Profit before tax	15,013	7,632
Tavation	6,140	1,725
Net profet	9.873	5.907
To minorities	643	†38
Earnigs	9.230	5.945
Extraordinary debit	_ _ .	427
Attributable	9,230	5.518
Interim dividend	794	477
Proposed linar	1.697	1.254
Times ball c		

First-half profits had increased from £2.89m to £6.98m and the chairman then explained that the group was benefitting from the strong pound, as the proportion of profits derived from the sale of imported goods in the UK had outweighed that earned in foreign currencies overseas.

The group is involved in international finance and investment, transportion and the sale of forest products.

Yearly earnings per 20p share jumped from 11.9p to IS.1p and the dividend total is raised to 4.77p (3.4909p) net with a final

comment

TKM has continued to build on its first-half success and fullyear profits are more than doubled — an impressive performance considering it is almost entirely through organic growth.

HIGHLIGHTS

Lex comments on yesterday's strength of sterling even against a firmer dollar and then moves on to the company front where Liggett stirred up the scene with news of proposals to sell part of its business to the French company Pernoda part which Grand Metropolitan is particularly interested in. Thomas Tilling released its annual report yesterday which Lex analyses. BL also posted its annual report but shareholders are not provided with any fluctuation adjusted figures despite heavy replacement of assets. Lex comments on the cash flow of th motor giant where financing needs rose from £291m to £334m last year. Finally there are the annual accounts from the British Transport Docks Board where a 10 per cent decline in profits sets the scene for the planned launch of 49 per cent of the equity on to the stock market. On the inside pages elecgroup Unitech pops up with a £3m rights issue and Fairbairn Lawson appoints a receiver, earlier plans to save the company having failed.

the company has clearly extracted the maximum mileage from the BMW franchise before it ended in December. Over the year unit sales were at least a quarter higher, thanks to the availability of higher stocks and, no doubt, to the voluntary restraint shown by Japanese car exporters in the UK market. Overall, the BMW business prob-ably contributed about £7.5m which leaves a sizeable hole to be filed this year before growth can be resumed. However, GKN is optimistic that it can deliver based on the momentum from the other profit centres and the new acquisitions. This outlook is largely supported by the market where the shares edged 4p higher to 79p for a p/e of 4.1 on stated earnings. The yield is

Dowding & Mills slips midway

AGAINST the directors' forecast. pre-tax profits of Dowding and Mills, electrical and mechanical engineer, slipped from £1,036,986 to £997,013 in the half year to December 31, 1979

In November, they said that despite disruptions in the engincering industry, they were hope-ful that first half results would he ahead of the corresponding period in 1978. Six months' tax takes £430,000 (£415,000) and the interim divi-

£5.5m. However, the company's

hankers who have security over

these assets have stated that

these alternative proposals would

announced lifts the total to 4p net, compared with last year's equivalent of 2.948p. The taxable surplus includes non-trading income of £423,000 (£141,000). After tax of £2.23m (£2.13m), including a £418,000 credit for stock appreciation from previous years, earnings per 20p share are shown up from 12.44p to 18.63p. Dividends absorb £621.000 (£457,000).

comment

back on course TAXABLE profits of Farnell Electronics expanded from components is one of the few growth areas left in this country as Farnell's good showing bears £4.05m to £5.12m in the year to January 31, 1980, on turnover ahead at \$25.26m compared with the company's 26.4 per cent pre-tax rise came from the compo-At midway, the directors said profits—up from £1.83m to £2.29m—had been affected by bad weather and strikes. They added nents business, which experi-enced sales volume growth of a quarter last year. The group has a strong cash flow and man then that second-half growth should continue at more normal aged to triple its interest received to over £400,000. But the group's consumer goods divi-sion dropped 14 per cent in profit terms. However, this is a small part of overall business and was bit but import competition. A final dividend of 2.7p now hit by import competition. Mean-while, spurred on by components (which now account for three quarters of group earnings), pre-

tax margins rose two points to an impressive 20.3 per cent. At

302p, down 2p, the yield stands

at around 2 per cent - low

yields are common in the sector

for companies such as Unitech

and Electrocomponents. The p/e

European supplier of electronic

tangible assets of Enatechnik came to DM9.7m (£2.3m) as at

December 31.

A circular giving details of the

rights issue and further informa-

tion regarding the Enatechnik acquisition is to be posted to

It seems a bit soon to hear from Unitech again, but this is an elec-tronics company on the move.

shareholders today.

comment

The distribution of electronic comes to 16 on stated earnings.

S. Pearson recovery gives £54m for year

minority interests of S. Pearson and Son rose from £51.4m to £53.7m in 1979. The net dividend for the year is to be increased by a quarter, and the current year has got off to a "satisfactory"

Within these profit figures, the contribution from Pearson Longman was marginally higher at £25.7m. Pearson Longman, which is a quoted company with 63.6 per cent of its shares held by S. Pearson, is also proposing to increase its dividend by 25 per cent.

After allowing for minorities, Pearson's attributable profits rose from £39.2m to £40.4m pretax. By contrast, profits in the first six months of the year were down by over 12 per cent.

Behind this recovery lies a Behind this recovery mes much higher contribution from the Midburst Corporation, which takes in Pearson's North takes in Pearson's North American interests, and a steadier performance at Royal Doulton. Profits here were badly hit by the transport strike in the first half of the year.

In a statement accompanying the figures, Pearson's chairman Lord Gibson said that the group

had a long term programme of redeploying a significant propor-tion of its U.S. assets into direct investments carrying control. As part of this policy, the share-holding in Camco was increased to 60 per cent at a total cost of \$23m. The market value of this investment at the year end was

In addition part of the in addition, part of the investment in Ashland Oil was sold in the year for \$32.7m cash and the Blackwell Land Company, of which Midhurst owns 37 per cent, made its first

Doulton's profits ended the year 3 per cent down, after a decline of around a quarter at the interim stage. Demand for tableware products was rather less buoyant in 1979, partly because of higher VAT, and although the engineering division improved on the previous year's poor performance, it did not match best hopes.

The glass merchanting side did

well, but margins were reduced in the home improvement activities later in the year. Lazard Brothers, the merchant bank within the Whitehall Trust, had a record year. Profits on corporate finance were higher. than ever before, after allowing for provisions required in connection with operations where the bank decided to support its came when the bank took a significant stake in Spillers in

course of the successful bid

to £195m during the year. This includes investments at £81.8m, against a valuation of £61.5m Lord Gibson said that portfolio investments had only fallen by from £59.6m to £72.7m, but net short-term borrowings rose from £59.6m to £72.7m, but net short-term borrowings dropped. from £5.3m to £1.8m.

The full year's payment is just covered by current cost earnings.

An abbreviated balance sheet

showed that Pearson share-

holders' funds rose fro m£168.2m

Interest, Expenses . 838 : Whitehell Trust ... 11,550 Midhurst Con. 5,655 Medame Tussaud's . 2,048

Pearson Longman

Within the Pearson Longman group, profits of the Financial Times rose from £3.2m to nearly £4m pre-tax. All this increase came in the second half, a period when the company reported a

when the company reported a loss in 1978.

Mr. Alan Hare, chairman of the Financial Times, said the figures were better than expected, and the charge were perfectly of the charge. partly as a result of the absence of The Times. He added that publication of the newspaper in Frankfurt was proceeding according to plan. Circulation from Frankfurt was now around 21,000 copies a day, roughly double the equivalent figure prior to this development, but sales would have to rise by much more in order to achieve targets. clients objectives and take a loss Mr. Hare said it was very on its own account in the difficult to allocate costs and market. One instance of this revenue to the Frankfurt project. The operation was thought to represent between 10 and 15 per cent of the paper's overall cos

over a three-year period.

tion revenue. "If you assume that 73 per cent of the advertising revenue arose in consequence of Frankfurt, then the net loss on the development in 1979 was roughly flim," he

stated.
This was well within last year's indication that running costs of Frankfurt would exceed attributable revenue by more than £4m in the three-year period. The hope was that 1982 would mark the turning point for the project

in profit terms.
The Penguin and Longman book publishing interests of Pearson Longman had a difficult year. Longman's figures were affected by cuts in public sector education, the stronger pound and the fact that the Nigerian company ceased to be a sub-sidiary during the course of the year. On a strictly comparable basis, profits in 1978 would have been just under £9.9m, compare with the reported figure of

incurred recurring costs of between \$600,000 and \$700,000 in 1979, including redundancy and reloca-

tion expenses. Viking Penguin lost around \$1m after interest costs, and there is apparently a good chance that it will make profits in 1980. Penguin reughly doubled its investment in the acquisition of new titles to around £1.6m in 1979, and expects the benefits will start to show through towards the end of this year, and to a greater extent in 1981 and

Pearson Longman proposes a final dividend of 4.605p per share, taking the year's total to

In, 1978, S. Pearson made an unsuccessful take-over bid for the outstanding shares in Pearson Longman Asked whether it might try again, Lord Gibson said he did not think such a move was likely in "foreseeable circumstances."

	. 1979	1978
	£,000	E,000
Turnover	200,257	176.87
Financial Times	44,322	34.2
Westminster Press	84,920	73,75
Longman Holdings .		41.4
Penguin Pub.	27,725	22,6
Penguin Pub	5.540	4.94
Inter-Company	788	1.2
Donfi helion tou	25,669	25.50
Profit before tair	3.996	3.1L
Westminster Press	13,404	10.8
Assembly Control of the state o	13,404	
Longman	8.437	10.1
Penguin Loss	381	1.5
Ledybird Books	7.024	
Pearson Logno, Loss	811	93
Toe	50 THE	12.7
Tex	10,705	
UK Oversees	\$0,705 9,677 1,028	11,20
UK Overseas Net profit	10,705 9,677 1,028	11.2 1,5
UK Overseas Net profit	10,705 9,677 1,028	11.2 1.57 12.77
UK Overseas Net profit	\$0,705 9,677 1,028	11,20 1,57 12,77
Tex UK Oversee Net profit Minority Meking Fedragodilaris could	\$0,705 9,677 1,028	11,20 1,57 12,77 30 12,41
Tex UK Oversee Net profit Minority Meking Fedragodilaris could	\$0,705 9,677 1,028 ,14,964 57 15,021	11,20 1,57 12,77 12,41 12,41
Tex UK Oversee Net profit Minority Meking Fedragodilaris could	\$0,705 9,677 1,028 ,14,964 57 15,021 8	11,20 1,57 12,77 30 12,41 12,18
Tex UK Overses Net profit Minority Meking Extraordinary credit Attributable Pref. Dividende	\$0,705 9,677 1,028 .14,964 .57 15,021 8	11,20 1,57 12,77 30 12,41 12,18
Tex UK Oversee Net profit Minority Meking Extraordinary credit Attributable Pref. Dividends	\$0,705 9,677 1,028 ,14,964 57 15,021 8 15,029 - 22	11,20 1,57 12,77 30 12,41 12,16 12,16 1,23
Tex UK Oversee Net profit Minority Meking Extraordinary credit Attributable Pref. Dividends	\$0,705 9,677 1,028 ,14,964 57 15,021 8 15,029 - 22	11,20 1,57 12,77 12,41 12,16 12,16 1,23 1,51
Tex UK Overses Net profit Minority Meking Extraordinary credit Attributable Pref. Dividende	10,705 9,677 1,028 14,964 15,021 8 15,029 22 1,548 12,563	11,20 1,57 12,77 30 12,41 12,16 12,16 1,23

of Fairbairn for the continuing group after exchange contracts for the sale completion of the Greenhat transaction was in doubt and of the property.

Fairbairn calls for receiver

DIRECTORS Lawson, the troubled engineering group, have requested the group's bankers to appoint a receiver after the failure of several attempts to save the company. Fairbairn's problems stem from a breakdown in the accounting systems in Greenbat, a major subsidiary. When this came to light last Spring, Fairbairn hegan to make provisions against major losses in Greenbat.

The extent of the problems took several months to clarify and the accounts and the AGM were delayed. Last December it was revealed that Atlantic Engineering and Co., a Jerseybased company controlled by a consortium of South African investors, had emerged as a huyer for Greenbat. December Fairbairn received an approach from an

ahead of the delayed annual the offer would have been conditional upon the disposal of would have reduced borrowings Greenbat which was approved by to approximately £2.4m and holders at the EGM on December would have enabled the group to

-Before the completion of the Breenbar transaction the com-

that in particular all realisation proceeds, including those sums arising from the Greenbat dis-posal, must be used to reduce the available facilities to £2.1m. As a result the directors did not consider that the prospective financial position of the group would have been sufficiently

strong to support both the continuing operations and the liabi lities which that operation would have assumed had the Greenbat disposal been completed. The directors decided they should not proceed with the

By the beginning of March this year disposals had been agreed. mainly property assets, for a total of £2.73m. and subject to shareholders approval it was planned Yesterday Fairbairn said that to inject further equity funds

31 1979, but which was not com-pleted. The potential offeror, a The majority of the transisted public company, withdrew actions were subject to the completion of the sale of the Welling. ion Industrial Estate for £1.75m. But after months of protracted discussions the prospective purtinuance of banking facilities chaser was not in a position to

Since that time the directors had been examining other proposals for the disposal of the estate and other assets and have been successful in obtaining serious proposals from public listed companies which could have resulted in a reduction to under half present horrowings of

not be acceptable to them." The group also said vesterday that Westinghouse Electric S.A. had informed Flexiform, Fair-buro's office furniture subsidiary, Greenbat disposal, but that instead they should continue to reduce bank horowings to the prescribed limits through the that it did not intend to rene the licensing agreement for the distribution of Westinghouse A.S.D. office furniture in the UK after December 31, 1979, An agreement with Westinghouse Electric was signed, however, for the orderly transfer of this section of Flexiform's business to Westinghouse, under which

DUPLE SALE

THE ENGINEERING division of leasehold in the Wheatfield works Oldham for £670,000. In vesterday's report the sale noice

Flexiform would receive pay-ments during 1980.

Unitech asks holders for a further £3m

ONLY EIGHT months after its £4.7m cash call. Unitech, the electrical component and equipment group, is making a £3m rights issue. The offer, on a one-for-ten basis at 180p, will involve 1.714.544 ordinary shares. This amounts to a discount of 40 per cent at yesterday's price of 302p. Mr. Peter Curry, the chairman, said yesterday that the money would be used in order to maintain a level of working capital appropriate to a planned increase

in sales volume. Following the acquisition for £3.4m of Alfred Nehe Enatechnik, a German components distributor, Unitech's level of group sales is expected to exceed £85m on an annualised basis. This compares with £46m for the year

ended June 1979. issue funds would go initiatally to reduce the group's borrowings, which stood at £10.6m at the end of last month. He also

said that the money would be helpful in financing the growth The board of Unitech yester-day forecast a pre-tax profits rise year ending May 31. It also repeated the earlier forecast dividend rise of 20 per cent to 8.7p at the gross level. The acquisition of Enatechnik was announced in February and was conditional upon a pre-tax

achieved a pre-tax of DM5m (£1.2m) and the acquisition was therefore completed on March The German group has a franchise base which includes Intel, RCA. Burroughs, Harris and Motorola Unitech claims that

towards its goal of being a major

profit of more than DM3.9m (£931,000). Enatechnik has now Tilling sees further progress

Tilling, industrial holding con-both in capital expenditure and 25 per centro f81.1m for 17979, cern, is expected to make further acquisitious, in the belief that its Stated earnings per 20p share progress, says Sir Robert Taylor, management and operational effi-were 29.4p (24.6p) and the divities chairman, in his annual state—ciency is capable of continuing dend total is being lifted from with this acquisition it is moving

Members are told that 1980 has opened with continuing high inflation, operous interest rates and 2 lack of growth in the UK and the U.S. where much of the group's business is conducted. Despite these problems, however, he believes that Tilling's diversity protects it in some measure from adverse economic changes and that its companies have the ability and motivation to pursue their planned objectives, even in a tough climate.

The group is continuing an

lt is planned to further extend operations in the UK and U.S., mostly by expanding those ecompanies already owned and also profitable opportunities in other parts of the world will be explored.
During the past three years,

FIOSM has been spent on acqui-sitions in North America and these are expected to make grow-ing contributions to group profits. As reported March 20 group aales rose 38 per cent to £1.42bn

that forecast at the Inflation adjusted results, based on ED24, show historical

(£47.9m) Group fixed assets expanded by growth by development and acquisition and also a property revaluation which produ surplus of £25.7m. Investments, mainly of a short and medium term nature, increased to £99.4m



Increased worldwide sales advances pre-tax profits to record £6.2 million

Results for the year ended 31st December, 1979					
_	1979 .£'086	1978 £'000			
Turnover	24.848	20.103			
I di moner					
Profit before taxation	6,201	5.629			
Taxation	3,033	2.674			
	3.168	2,955			
Attributable to minority	9,100	٥٥٥٥			
shareholders	(39)	(24)			
Profit after taxation and before extraordinary items	3.129	2.931			
extraordinary items		(78)			
Danguana, at mo		• • •			
Profit after taxation and	0.100	0.050			
extraordinary items	3,12 9 1.229	2,853 928			
Dividencis	1,223	320			
Retained profit	1,900	1,925			
Earnings per share	15.28p.	14.32p.			
Analysis of Sales					
Analysis of Sales Total worldwide sales	125,682	98,922			
1012					
Overseas sales	52,881	36,947			
U.K. sales	72,801	61,975			
Overseas Holland	2,045	1.651			
Italy -	2,395	1,970			
Switzerland	16,593	13,199			
U.S.A.	31,783	19,865			
Australia	65	262			

"The progress of the Group's activities has been maintained during 1979 resulting in auction sale totals of £126 million compared with £99 million in 1978. The plans to increase our sales capacity are now coming to fruition and our principle saleroom in New York goes from strength to strength.

The expansion undertaken during the past three years will be consolidated during 1980 with the object of restoring margins to their former high level. The prospects for the first half-year are good with important sales planned in all our major salerooms."

Christies International Limited the a copy of your

The Board has a vigorous policy of growth via acquisition and will increase significantly its group sales level by bringing Enatech-nik into the fold. The German company seems to have been a good deal, on the newly released profit figures it cost less than three times pre-tax earnings and its net assets are £2.3m. But the main reason for Unitech's £3m cash call is not to pay for Ena-techink—that came out of last summer's rights money. The current plans call for reducing borrowings and fuelling the further growth of the electronic components business. Based on the showing of fellow components company Farnell yester day, this seems like a good idea The issue is not underwritten, but the discount is sizeable at just over 40 per cent. The ex-rights yield on a forecast 8.7p gross total comes to around 3 pe cent.

GUTHRIE ALLOTMENT. Following the offer for City and International Trust, 215,822 new ordinary shares in Guthrie Corporation have become available for subscription by Guthrie's holders at 710p per share to provide the cash required to implement the cash alternative. Applications have been received from Guthrie's holders for a total of 317,620 new ordinary shares. The available shares have accordingly been allotted in the proportion of one new ordinary share for every 16.7595 existing ordinary shares of Guthrie.

SPAIN April Z2
Banco Bilbao ...
Banco Exterior
Banco ind Cat
Banco Hispano ...
Banco Madrid ...
Banco Santander
Banco Urquijo ...
Banco Viccaya ...
Banco Zanigota
Orexados 216 236 206 127 211 149 257 144 272 200 100 62 58.2

We celebrated our Centenary Year in a very special way!

Sales were again a record at £137 m-with exports up 39.4%.

Profits were the best ever at £8 m-with a 30% rise overseas to £4.5 m.

Our Automotive and Industrial activities both increased sales and profits despite difficult conditions at home and overseas.

Earnings per share were up again to 9.32p – with the asset value at a record 86.9p.

> Dividends were increased 20% to 2.63p per share - covered 3.5 times.

... and our second century has started well we believe that Group profit for 1980 will be higher than in 1979.

For a copy of the Report and Accounts and the Chairman's State Secretary, BBA Group Limited, P.O. Box 20, Cleckinetran, West Yorkshire 8019 8HP.

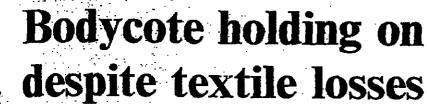


Needed by every industry

هكذا من المرحل

slumps to £0.37m

The state of the S



LOSSES INCURRED by certain textile subsidiaries in the final quarter meant that second-half 1979 pre-tax profits of Bodycote International dropped to £0.99m against £1.21m last time. This left the full year figure no slightly from £2.06m to £2.14m, on turnover ahead by £5.51m to £35.38m.

The Board is confident The Board is confident that

taken to prepare the group for a deepening recession with the comfort of an increasing

comfort of an increasing liquidity.

Mr. J. G. Dwek, the chairman, says overseas earnings are likely to continue at their present level in 1980 and projections for the other mainstream activities do not indicate a disappoint full year result. The final outcome, however, will depend on trading conditions and the extent the conditions and the extent the recession affects margins.

The group is in good shape, poised to take advantage of any noturn in trade and should have available funds during the year to undertake further expansion,

After tax After tax of £467,000 (£418,000), yearly carnings rose from 20.7p to 21.03p. A final dividend of 2p lifts the net total from 3.0323p to 4p.

The industrial protective clothing and safety products division continues to be the main corporate activity of the group, but the Board intends to develop a residient or properties division.

a specialist engineering division, centred around Blandburgh, as part of an aggressive profit replacement programme. Sir Monty Finniston has been appointed a non-executive

• comment

THE TEN

The Section 1988

Bodycote teeters on the brink of a decision to close its Denby textile processing subsidiary. The outcome is important for it was not so very long-ago that assets of £3m and more were tied up in Denby and, despite a flood of problems, the operation

BOARD MEETINGS

The following companies have notified date of board meetings to the Stock The following companies have notified dates of board meetings to the Stock Exchange. Such meetings are usually held for the purpose of considering dividends. Official indications are not available as to whether dividends are interints or finals and the subdivisions shown below are based mainly on test year's timetable.

Interines.—British Assets Trust, Long and Hambly, North British Properties.

Long and Hambly, North British Properties.

Finals: Amalgamated Metal, 8.5.G. International, 8.8.Q. (Retail), A. & C. Stack, Blue Circle Industries, Copydox, Corinthian Holdings, Delta Metal, Elbar Indestrial, E. Fogarty, Gosforth Industrial, Norman Hay, Laing Properties, Laporte Industries, London and European, John Menzies, James Noill, Office and Electronic Machinas, Spear and Jackson, Thomson T-Line Caravans, Wight Holdings.

FUTURE DATES	
Interims:—	
Devenish (J. A.)	M
Kwik Save Discount	Δ.
Lawrence (Watter)	A
Ulster Television	М
Vaux Beweries	
Wemyss Investment	
Wivrhampton, & Dudley Brews.	
Finals:—	w.
Allied Plant	
Anchor - Chemical	
Boot (Henry)	M
Bremner	Αp
Brixton Estata ,,,	Mi

to learn that many of the textile the final quarter and it took further growth in protective clothing and the first fruits of diversification into the engin-eering sector to maintain a ordinary dividend has been semblance of overall growth declared. Bodycote is clearly about to Turnover of Rediffusion Tele-

a useful liquidity cushion. A fully taxed p/e of 5.8 at 77p, down 3p yesterday, is possibly influenced more by the obvious problems in what are now peripheral operations and ignores the strength inherent in safety workwear but, on a yield of 7.6 per cent, income is very much a secondary consideration. a secondary consideration.

Rediffusion Television tumbles

f1.77m compared with a profit of £1.84m, pre-tax profits of Rediffusion Television for the six months to January 29, 1980 slumped from £3.11m to £100.072

In previous years Thames Television, of which Rediffusion Television holds marginally over 50 per cent has been treated as a subsidiary. It was now been accounted for as an associate, and comparative figures have been adjusted.
In the second half of 1979,

Thames sustained losses through industrial action. It is estimated substantial pre-tax profits were made in the first three months of 1980 but it is likely the company will sustain a small loss for the nine months to March Rediffusion Television has

the next few months, the outlook decided to change its accounting date to March 31 and the is grim. It comes as no surprise directors forecast a profit of some £2.75m for the nine months to March 31, 1980, compared with £9.22m for the previous year.

The company is held 62.6 per cent by BET and 37.4 per cent

change its spots again, after a vision totalled £17m (£19m) for has not been very far short of year of significant change, as the six months. Tax for the profitability. But a wave of Blandburgh spearheads a drive period took f.295,000 against cheap U.S. imports has recently further into specialist engineer the attributable ing while the cash realised from balance fell from f.1.43m to the disposal of Polar will provide f.105,000.

Travis & Arnold over £7m: Wadkin profit dividend rise and scrip

final of 6p, and the directors are planning a one-for-one scrip

sue. The first quarter of 1980 has produced sales and profits con-siderably ahead of the depressed first thre emonths of last year, say the directors. But they add say the directors. But they add
that the outlook for the remainder of this year is for more
difficult trading conditions.
After a poor start, activity in
the building industry remained
at a reasonable level during
1979, especially in the repair,
maintenance and improvement

sector. Turnover expanded from £73.42m to £96.83m, including £23.55m from 12 months' sales of Ellis and Everard, compared with F9.2m for four months in 1978.

Trading profit from these sales improved considerably from vestment Trust (EDITH) rose tion after adjusting for interest on the cost of acquisition. The profit this time is struck

after sharply increased interest charges of £615,000 (£277,000) and includes a surplus from the sale of properties of £236,000 (£26,000). Tax takes £3.02m (£1.99m) and dividends absorb £609,000

(£279,000), leaving a retained profit of £3.59m (£2.39m). Earnings per 25p share are shown at 84.7p (56.5p) before tax, and 49.2p (32.3p) after.

comment

Travis and Arnold's profit is at least £1m better than the most TURNOVER WAS down from optimistic City estimates, and the £15m to £12.75m but Charles Hill shares climbed 20p yesterday to of Bristol, civil engineering, build-270p. Ellis and Everard, acquired ing. property group, finished 1979

Pearson

Longman

REFLECTING improved trading big profit maker more quickly margins, 1979 taxable profits of than expected. Also, the group as Travis and Arnold, timber and building materials group, rose increases and buoyant repair and from £4.69m to £7.25 after being improvement markets. A strong £0.23m ahead at £2.41m midway, start in 1980 will be difficult to The dividend is stepped up sustain as the outlook for new from 4.2588p to 7.61p net with a fixed of £0.25m and the divertors are of the company's outlong by a whole gained from timber price increases and buoyant repair and improvement markets. A strong start in 1980 will be difficult to sustain as the outlook for new housing, which takes 40 per cent of the company's output by volume, is poor. With 1979 earnings of 40.5p a share fully taxed, the 7.16p dividend seems miserly—the vield is only 3.9 per cent. -the yield is only 3.9 per cent. But the group wants to live with Ellis another year before passing some of its benefits on to share-

EDITH ahead and pays more

vestment Trust (EDITH) rose from £2.55m to £2.98m in the earlier years, say the directors, from £2.55m to £2.98m in the and made a significant contribu-year to March 31, 1980, before tax of £0.99m against £0.91m. A final of 1.5p lifts the ne dividend to 2.3p compared with an equivalent 1.909091p. and, following the pattern of previous years, the directors are proposing a scrip issue of one-

Earnings per 25p share are shown as 2.49p (2.12p).

Charles Hill loss reduced –no dividend

TURNOVER WAS down from in August, 1978, has become a with reduced pre-tax losses of

Royal

Doulton

£184,875, compared with £740,388. dividend for the period. At halfway, losses had been cut from \$500,000 to £6,000, and although the interim had been omitted, as in 1978, the directors said the possibility of a final would be considered when full-year results were known—last year a final of 2p was paid, against a total of 7.26p in 1977, There was a £283,698 loss from continuing businesses, compared with a £7,879 profit—last year there was a £787,855 loss from

businesses sold.
Interest charge was £50,565
(£29,511 credit) and there was an exceptional credit of £191,655 (nil). Asociates' contribution was a £42,267 yoss against a £10,129 profit previously, leaving the pretax figure.
Tax credit was higher for 1979, at £37,796) and there was an extraordinary credit of £26,065

Loss per £1 share is given as 13.1p against 62p.

Chesterfield Props. nears £2.9m

With second-half pre-tax profits improving from £1.14m With second-half to £1.56m, Chesterfield Proper-ties reports an increase of £632,000 to £2.56m for 1979, on turnover of £4.56m, against

The pre-tax figure is arrived at after interest down from £876,000 to £782,000, but this excludes development outgoings £465,000 (£67,000) net of tax.

After tax up from £1.08m to £1.32m, stated earnings per 25p share are 7.77p, against 5.83p, and the dividend total is effectively raised from 4p to 5p net, with a final of 3p. The pre-tax figure is arrived

S. PEARSON & S

creasing inflation rate and industrial disruption severely hit pre-tax profits of Wadkin which slumped from a best-ever £2.05m 10 £0.37m for 1979, on increased turnover of £25.23m against £23.65m. In the second half of the year, the woodworking and metalworking machinery group incurred a loss of £0.25m, compared with profits of £1.04m learning. pared with profits of £1.04m last

In the first quarter of the current year, order intake has materially improved over the same period of 1979. However, some models are being sold at reduced margins overseas until the effects of cost reduction exercises work through. This and the investment necessary to carry through the programme lead the board to expect only a partial recovery in profitability this year and a fuller recovery in 1981.

The company is responding to the challenge of a strong pound by reducing manufacturing costs. A major programme to restruc-ture and simplify the product ranges manufactured at each production unit is being carried

Last year, stock rationalisation costs reduced taxable profits by £392,000 (nil), while interest charges increased from £130,000 to £175,000. Tax was down from £300 to £175,000 to £175,0 £394,000 to £186,000 and after an extraordinary credit this time of £104,000, attributable profits emerged at £285,000, against

Stated earnings per 50p share plunged from 34.48p to 3.77p, but the dividend total is kept at 6.47p net with a final of 4.22p

comment Investors who bought Wadkin for capital growth are back where

Midhurst

shares are now within a whisker of the 1977 low point. Although the group warned as to the effect of a disrupted labour relations and adverse currency movements, the second half loss is still something of a surprise and the maintained distribution, yielding 128 per cent, is the only immediate share price only immediate share price support. After an indifferent four-year track record it had become clear that the decision become clear that the decision by the new management to grasp a painful nettle was somewhat overdue. While the downside now looks limited, a swift re-rating will depend on the success of the stock pruning and plant reorganisation effort. That may take up to three years but may take up to three years but in the meantime Wadkin's in the meantime Wadkin's strong assets and powerful market share might be sufficient to attract a bid should

profits stumble once more amid the first of many new hurdles. M. F. North £68,000

downturn DESPITE an increase in interest received from £44,633 to £118,588, taxable profits of M. F. North, hotel concern, were down to £674,181 for 1979, compared with £742.506. Turnover was also behind at £3.95m against £4.25m. After much lower tax, however, of £134,541 (£269,689), net profit came out ahead at £539,640 compared with £472,817. giving earnings of 2.07p (1.81p) per 10p share. And the dividend

is effectively raised to 0.8p (0.466p) net with a final of

Madame

Tussaud's

United Carriers £1m advance: confident for current year

the period has left taxable profits of £617,486 (£359,515), the amount of traffic carried by of United Carriers, express amount retained was £1.91m United's fleet and also from a $17\frac{1}{2}$ parcel: service concern, at a compared with \$1.63m.
record 23.86m for the year ended Progressive investment January 26; 1980, compared with property, vehicles, plant and

despite the difficult trading

A SEVERE downturn from . £848,000 to £67,000 in the second

half, resulted in pre-tax profits of Oxiev Printing Group for 1979 being substantially lower at

Problems encountered in com-missioning a new £1.2m Web Offset press, and a sharp and

sudden fall-off in orders in several market areas gave rise

to substantial losses in the first quarter. The transport and

engineering striges also had a very damagin effect on business. At the interim stage business was

said to be buoyant in most divi-sions, and the board was con-

Mr. P. Brabrook ,the new chairman, says that because of the unfavourable trading climate in

company's industries, would not be pradent to make a forecast for the current year, but

he is confident that the substan-tial capital investment of recent

years will enable it to take full

advantage of an improvement in

fident for the future.

trading conditions.

£674,000 against £1.55m.

Progressive investment in new

Oxley Printing slides to £0.67m

The pre-tax figure was arrived at after interest up from £419,000

to £617,000. After tax £103,000 (£104,000), stated earnings per

25p share are down from 20.42p

to 7.04p, but the final dividend is raised from 1.5661p to 1.6p,

making the total 3.1p, which, when grossed up, represents an increase of 7.4 per cent on the previous year's 2.7537p.

HIGHER interest charges and

depreciation reduced pre-tax profits of M.Y. Dart from \$10,000 to £755,000 in the 28 weeks to December 29, 1979. The rise of £82,000 to £189,000 in interest and \$10,000 to £189,000 to £1

in interest reflects higher rates and increased borrowings which

and increased borrowings which growth in the performance were not reduced until the the group.

MY Dart

halftime

decline

United's fleet and also from a 17½ per cent rates rise last June. The company says that traffic has declined by 10 per cent so far in 1980, but is boping that this represents the bottom of the trough. Even if consumer spending slumps (70 per cent of the business is carrying for the retail trade) there is some flexi-Property, vehicles, plant and machinery, continued, the chairman says, amounting to f3.92m, with the group maintaining a cash balance of £1.19m.

Mr. Graham Mr. tail trade) there is some flexibility in that 15 per cent of Mr. Graham Millard, chairman, United Carriers has had a good United's labour force is casual states that the company is year Pre-tax earnings are up 35.6 and can be adjusted according to confident of future prospects per cent on turnover about a demand. The total dividend is up quarter higher. After stripping 70 per cent, for a gold of 5.4 out £185,000 of investment in-come, £19,500 from the newly on fully taxed earnings comes At the interim stage profits come, £19,500 from the newly had risen to £2.02m (£1.52m) acquired Abel Systems and leas-and directors looked forward to ing profits of £50.000, the group's to S.S. which may be a trifle high because of speculation over a another satisfactory year. organic growth comes to nearly
After tax of £1.34m (£860,000) £750,000. This stemmed partly

Depreciation

£298,000 against £260,000.

The interim dividend

unchanged at 1p — last year's total was 2.8p from pre-tax

profits of £1.75m.

Group sales advanced 23 per cent to £11.02m in the first six

months, all three divisions — sports equipment, packaging materials and pyrotechnics —

achieving increases. The sales turnover would have been greater but for a serious

downturn in the closing weeks of 1979.

the group's companies are likely to do appreciably better

in the second half; for others the outlook is less clear.

For the medium and longer term, he is confident that new

products and improved production methods now being

developed, will ensure the continuance of a satisfactory

The chairman says some of

Group results for 1979

Preliminary announcement by Lord Gibson

£53.73m £,51.43m

Profit of the group before taxation

Profit before taxation attributable to S. Pearson & Son

Profit after taxation

£40.36m £39.17m

(excluding extraordinary items)

£26.51m £24.59m

Earnings per ordinary share

38.7p

Dividends per ordinary share

10.0 P

Turnover (excluding banking and investment income)

£483.8m £,401.3m

In the second half of the year under review the Pearson group more than recovered the ground lost in the first half. The transport strike seriously disrupted the activities of several of our companies early in 1979 and total profits for the first six months fell by 7 per cent. In the second half, in spite of the engineering strike, the improvement over the previous year was such that total profits for the whole year increased by 4 per cent to £53.7 million. Earnings per share rose by 8 per cent to 38.7p helped by a proportionately lower tax charge than in the previous year.

The results of the five major divisions will be described in full in the 1979 report and accounts which will be posted to shareholders on 7th May 1980. The profits of Pearson Longman and Madame Tussaud's were both slightly higher. Doulton just missed maintaining its profits, while those of

Whitehall Trust increased satisfactorily due a to higher contribution from Lazards. The star performer was Midhurst Corporation (USA) where profits were substantially increased.

The ending of dividend controls allows the payment of a materially higher dividend. We are recommending a final ordinary dividend of 6.25p per share (payable on 2nd June 1980 to shareholders on the register at 9th May 1980) which will increase the net total for 1979 by 25 per cent over 1978. This, on top of last year's 17 per cent increase, will go some way to compensate shareholders for real income lost during the period of dividend restraint.

The annual general meeting will be held in London on 30th May 1980.

CANNING

The EEC's largest manufacturer of plant and materials for metal finishing

Summary of group results for year ended 31st December £'000 55,105 40,059 1,051 Profit before tax 1,439 588 Profit attributable to shareholders 1,020 Earnings per share ... 6.60p Dividend per share (paid and 3.978p 3.904p proposed)

Final dividend proposed of 2.254p making a total for the year of 3.978p.

* Profit before tax for 1979 after interest costs of £928,000 and redundancy costs of £154,000 (1978 £383,000 and £102,000 respectively).

* Traditional business of supply of materials and plant for metal finishing seriously affected by national transport and engineering industrial disputes. Substantial losses incurred by Canning

Engineering our major plantmanufacturing subsidiary, and by out Australian subsidiary. * Good performances were achieved by the group's smaller subsidiaries which operate in environmental control, plant and components for electronic industries, aluminium casting and

At 31st December 1979 net assets 94p per share. Borrowing represents 56% of shareholders' funds before allowing for surplus of £886,000 on property values.

A copy of the Report and Accounts may be obtained from the Secretary, W. Canning Limited, Five Broadway. Broad Street, Birmingham, B15 1BH.

A copy of the full announcement is available from the Secretary S. Pearson & Son Limited, Millbank Tower, Millbank, London SW1P 4QZ. Telephone 01-828 9020

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ntury

industry.

ties are deducted from the cash offer of £8.4m, the bid values

Maples' trading activities at only some £5.2m, he adds.

Mr. Keys discloses that a valuation of the group's main free-hold and leasehold properties at March 31, 1980 revealed a surplus

over the written-down book value at February 2, 1980 of some £3.2m. The written down book value of the stores not revalued.

was £0.32m.

If the properties had been included at the valuation of £8.4m

and the £2m discounted value of the tax losses, net tangible assets attributable would be some £10m.

or about 35 p per share, he

states.
To this should be added a substantial sum to reflect the current costs of fully fitting out Maple stores, an amount Mr. Keys estimates for the

mates at some £11.5m for the UK alone, in addition to the cost

of sites and buildings.

states.

1979 Preliminary Profit Announcement

· · · · · · · · · · · · · · · · · · ·	HE WHINAH	66116116
· .	1979 £'000	1978 £'000
Group turnover.	100,780	96,882
Group profit before items		•
listed below	7,457	6,983
Interest payable	2,245	2,188
	5,212	4,795
Profits of associated companies	596	1,675
Group profit	5,808	6,470
Taxation U.K.	809	1,224
Taxation overseas	1,845	1,693
	2,654	2,917
Profit after taxation	3,154	3,553
Extraordinary items	<u>492</u>	(49)
Profit after all charges	3,646	3,504
Minorities	494	384
Profit attributable to members	3,152	3,120
Preference dividends	36	36
Ordinary dividends	883	· 786
	919	822
Profit retained	2,233	2,298
Earnings per Ordinary Share base	d on	
11,033,309 shares (1978 – 10,990,305)	<u>23.78</u> p	_28.51p

Fall in group profits from £6.47m to £5.81m in spite of excellent results from Canadian operations where profits measured in local currency more than doubled was due to :-

- adverse effect of exchange rate fluctuations on profits earned overseas
- lower level of profits earned in the Middle East unexpected level of losses from rice milling

and trading in the second half of the year. Subject to world trading conditions good scope exists for improvement in 1980.

DIVIDEND

The recommended final ordinary dividend per share is 4.85p (£535,115) and dividend warrants will be posted on 2nd July to shareholders registered on 3rd June 1980. The total dividend for 1979 will therefore be 8p (gross 11.43p) which compares with 7.15p (gross 10.67p) for 1978.



Steel Brothers Holdings Limited Sondes Place, Dorking, Surrey



Call for Canada | Mr. Narby's companies to mineral policy

BY KENNETH MARSTON, MINING EDITOR

CALL for a comprehensive "Without been made by Mr. William D. executive officer of the Bank of Montreal, in a speech to the Canadian Institute of Mining canadian institute of mining and Metallurgy at the latter's annual meeting in Toronto.

He said that such a policy should be a marriage of national mineral policy and industrial strategy based on co-operative, rather than competitive, relation-

It should also ensure that "we have the fullest possible knowledge of the extent of our resources and that we have the private sector companies who can bring them on stream with minimal lead times at competi-

"On any reading of Canada's prospects, the capacity of our mining industry to locate and develop orebodies will remain fundamental to our economic strength. In my view this point has tended to be ignored out-

side the industry.
On the one hand we have governments eager to raise revenue and please other vocal constituencies—I need only mention British Columbia's recent moratorium on uranjum exploration—on the other hand we have analysts rushing head-long after energy and the manufacture of high technology end products.
"Sometimes we seem to forget

that a healthy, vigorous and productive resource sector would be one of Canada's highest cards in the international economic game vet Canada has

industry."

He concluded that great care success, CDCP has decided to was needed to see that taxes and costs of doing business did not reduce profits to levels that at its mine on Negros Island in could discourage investment.

minerals policy to protect reasonable rate of return, we Canada's economic future has would see a withering away of would see a withering away of investment, exploration, research and development and even-tually the industry itself." Denison Mines reports a first quarter net profit of C3 16.4m (£6.2m), equal to earnings of 89 cents (33.7p) per share, which compares with C8 15.6m in the first quarter of last year and the 1979 total of C3 56.1m. The modest improvement in the latest earnings is attributed to higher revenue from oil and as

bigher revenue from oil and gas plus a substantial increase in other income — including CS 6.2m arising from the Reserve Oil and Getty Oil termination agreement—but it was partly offset by higher uranium production costs and slightly re-ducted sales of the material

BAGUIO RECORDS ANOTHER LOSS

Despite favourable markets, Baguie Gold Mining, now majnly a copper producer, in the Philippines, made a loss in 1979 for the third consecutive year, reports Leo Gonzaga from

The net loss was Pesos 370,000 (£22,900), compared with Pesos 2.03m in 1978 and Pesos 3.29m in 1977. Interest charges of Pesos 9.2m and higher produc-tion cists more than offset a 59 per cent rise in copper sales and a 9 per cent rise in gold sales. By contrast, CDCP Mining started commercial production last June and in its first six months of commercial operation earned a net Pesos 27 1m (£1.68m) from sales of copper, gold, silver and molybdenum.

Black Mountain set

BLACK MOUNTAIN, the base metals joint venture of Phelps Dodge and Gold Fields of South Africa in the north west Cape, will become "financially selfwill become "financially self-supporting" this year, Mr. Ian Mackenzie, chairman of Standard Bank of South Africa, said at the official opening of the mine yesterday, reports Bernard Simon

to clear debt

from Johannesburg.

Mr. Mackenzie said that the mine's net revenue should reach R100m (£55.6m) a year on the basis of the average prices for its products prevailing over the past nine months. Capital out-lays have totalled R170m, compared with an original estimate of R181m. Production started

Black Mountain's annual out-put will include 132,000 tonnes concentrates, 35,000 tonnes of zinc concentrates and 22.000 tonnes of copper concen-

Some 113,000 KG of silver will be extracted as a by-product. The sharp rise in the silver price is a major reason for Black Mountain's short payback

Besides proven economic ore reserves of 38m tonnes, drilling has indicated an additional 200m tonnes of lead, zinc, copper and ilver bearing deposits. Mr. Mackenzie said the mine's

milling rate is expected to reach

PROFITS CLIMB

AT WIT. NIGEL

Net profits for the quarter to reached

(£725,000). nearly double those of the previous quarter, and over four times greater than in the full year to June 30, 1979.

The company says that the downward trend in gold output, which reached a low of 69 kilo-

grammes in January has been arrested and that production

monthly average of some 80 kg.
If current levels of revenue are maintained and capital expendi

ture is incurred as projected, it

is unlikely that any liability for tax on mining will arise in the

current year to June 30, the com-pany concludes. Wit. Nigel paid a single dividend of 12 cents for

Australia hopes that the EEC will help in developing its vast deposits of uranjum, coal and gas, Mr. Douglas Authony, the Trade and Resources Minister, told an EEC delegation in

told an EEC delegation in Canberra. But Australia became concerned when there was no opportunity to redress trade

leader of an international consortium, expects to start develop-ment of the Ok Tedi copper-gold

deposit in Papua New Guinea next February A financial scheme will be submitted to the Government by the end of October. Mining of the deposit's gold cap will start in 1984 and appropriate and cold operations in

copper and gold operations in

Compagnie Royale Asturienne des Mines, the Belgian lead and zinc producer, had a 1979 net loss of EFr 2.65n (539.1m), of

which BFr 2.45m was attributable to losses on its Spanish opera-

Hill Proprietary,

balances, he added,

the year to end-June 1979. ROUND-UP

the designed capacity of 94,000 appropriate time. Mr. Bill Warner, the chairman, said yesterday that the 30 acre site was capable of tonnes a month by mid-year. soaring bullion price

accept offer for Furness tion" to Manchester Liners and in this respect will "pay due regard" to the interests of all Manchester Liners' shareholders. Investments and Helix Invest-ments, which together own 15.7 per cent of Furness Withy, have Manchester Liners operate on

announced that they will accept the offer made by C. Y. Tung's Orient Overseas Containers (Holdings) for Furness. Furness shares closed 14p higher at 385p yesterday against the offer price Mr. Narby understands that his associate, Canadian National Railways, also intends to accept

in respect of its 3.3 per cent holdings. This means that another obstacle in the way of the Tung group's fillm bid for Furness However, the bid still has to cross the hurdle of a possible referral to the Monopolies Commission. The offer closes on Friday and normally the Government makes up its mind about referring cases to the Mono-polies Commission before the

first closing date. inst closing date.

In an answer to a written Parliamentary question yesterday, Mrs. Sally Oppenheim. Minister of State for Consumer Affairs, said that a decision on the Tung bid would be made as soon as possible. It is understood that the could be approached that the could be approached.

stood that this could be an-nounced on Thursday. Mr. Narby and Mr. C. H. Tung nave had extensive discussions over the last couple of months on the subject of Eurocanadian's 37.6 per cent stake in Manchester Liners, which is majority controlled by Furness. Eurocanadian Shipholdings (owned by Delphin, Helix and Canadian National Pailware) acquired the National Railways) acquired the Manchester Liners stake during an earlier takeover battle.

Although no specific agreements have been reached, Mr. Tung has told Mr. Narby that once the offer for Furness becomes unconditional he

These include properties sur-plus to trading activities which are valued at £1.2m and, owing to past losses from the develop-ment in Tottenham Court Road. ment in Tottenham Court Road,
London, tax relief on future
trading, "it might reasonably be
assumed that the present value
of these tax losses is approximately £2m," says Mr. Keys,
"If this discounted value and
the value of the surplus proper-

the North Atlantic as does Cast Containers (owned by Euro-canadian) and Dart Containerline (one-third owned by Orient).
There is considerable overcapaable scope for rationalisation...

According to the latest Containerisation international Year-book 1980, Dart operated four container ships with a total carrying capacity of 6,285 teu. Manchester Liners controlled 10 containerships (5,142 teu) and Cast has six vessels (4,528 teu).

Maple's record figures back bid rejection

Maple and Co. (Holdings), the furniture retailer, yesterday backed its rejection of the £8.6m bid from Waring and Gillow (Holdings) with the announcement of record profits for 1979-80 and a doubled dividend.

Pre-tax profits for the year ended February 2, 1980, in-creased by more than a third

creased by more than a third to £1.4m and the net dividend is being raised to 1.5p, with a final of 1.25p. The directors are forecasting at least a similar payout for 1980-81.

Mr. David Keys, the chairman, says that the Waring and Gillow offer places a "wholly unacceptable value" on Maple shares. He way into out that there are factors. po ints out that there are factors which do not relate directly to

Warner Holidays pays £0.35m for Welsh site

Warner Holidays, Britain's self-catering apartment complex only independent holiday camp operator with a Stock Exchange quotation, is expanding its UK In their statement Warner interests into South Wales. Warner is to pay £347,000 for been lodged against a planning Greenway Holiday Park, a self-catering apartment complex at Arenal in Majorca was fully booked.

University of the complex of the camping apartment complex at Arenal in Majorca was fully booked.

University of the camping apartment complex at Arenal in Majorca was fully booked. site at Oxwich Bay on the Gower Peninsular.

The new site which will strengthen the company's self ratering division—will be managed by Mr. Henry Warner, a nephew of the chairman, and the first of the third generation of Warners to enter the family there were several other voing members of the family available to join the business at the

further development. But he is going to "wait and see how it goes" before deciding on any further expansion there

catering caravan and comping affect a part of the camping rite at Oxwich Bay on the Gower activity at the Greenway holiday park. Pending the outcome of this move £75,000 of the purchase consideration has been retained by the company.

Completion of the deal is

scheduled for the end of this month and settlement will be from the company's cash Warner's holiday centres are

concentrated in the Isle of Wight Hayling Island (Hamp-shire), Devon, Essex, Kent and It also operates in Suffolk Majorca,

With little change in bookings, profits in the first half were virtually static at £356,000 against £354,000. Since July, however, bookings had recovered during the early weeks of this year has made a strong impact on fortunes of Witwatersrand Nigel, the small independent gold producer in South Africa.

Lilleshall earns and pays more

THE 1979 improvement in pretax profits forecast by Lilleshall Company at halfway, when an advance from £126,000 was reported, turns out to be from

£273,000 to £404,000. Earnings per 10p share gained 3.1p at 15.5p and the final divi-dend is 2.5p for a 3.5p (1.933p)

Mr. Allan Pike, chairman of this steel and engineering group, says the current year started amid industrial strife and operations have had to be conducted in a trading environment which in many areas remains difficult. However, all divisions have traded profitably, with the exception of steel rolling. The strike has caused trading in this division.

inter group rading profit Stockholding Extraordinary profit ...

Stag Furniture Holdings Ltd.

1978 £'000 £'000 **29.495** 20,730 +42% Turnover 3,354 2,286 +46% Pre-tax Profits Earnings per **Ordinary Share** Total Net Dividend per Ordinary Share 10.0p 6.5p +54%

Proposed bonus issue of five Ordinary plus two 10% Cumulative Preference: Shares for every five Ordinary Shares.

Points from the statement by Mr. P. V. Radford, Chairman

- Stag Cabinet, Avalon and Meredew all contributed to record year.
- Group in strong financial position with bank balances of £1.25 million.
- Sales in first quarter of 1980 have been maintained in competitive trading

Copies of the Report & Accounts may be obtain from the Secretary, Stag Furniture Holdings Limited, Haydn Road, Nottingham NG5 1DU.

15TH MAY 1980 REDEMPTION

PROVINCE OF NOVA SCOTIA (CANADA) U.S. \$15,000,000 9% Bonds 1985

The Province of Nova Scotia announces that for the redemption period ending on 15th May 1950 it has purchased bonds of the above loss for U.S. \$344,000 nominal capital which have been duly cancelled. The nominal amount of bonds to be drawn for redemption at par on 15th May 1980 to satisfy the current redemption obligation is accordingly U.S. \$556,000 and the nominal amount of this loan remaining outstanding after 15th May 1980 will be U.S. \$7,000,000.

Notice is accordingly hereby given that a drawing of bonds of the above loan took place on 3rd April 1980 attended by Mr. Keith Francis Croft Baker of the firm of John Venn & Sons. Notary Public, when 656 bonds for a total of U.S. 3656,000 nominal capital were drawn for redemption at par on 15th May 1980, from which date all interest thereon will cease. The following are the numbers of the bonds drawn:

353 769 1145 1419 1812 2260 2741 3550 4174 5562 5539 5548 6622 5539 5548 6627 7167 765 1921 19753 11183 11259 13152 13152 1325 1325 14325 Witness: K. F. C. Baker, Notary Public.

The above bonds may be presented for redemption at par on or after 15th May 1980 at the offices of the paying agents named on the coupons for payment in the manner specified in Condition 4 of the Terms and Conditions of the bonds. Each of these bonds when presented for redemption must bear the coupon dated 15th May 1981, and all subsequent coupons, otherwise the amount of the missing coupons will be deducted from the sum to be repaid.

Principal Paying Agent: N. M. Rothschild & Sons Limited, New Court, St. Swithin's Lane, London EC4P4DU. 23rd April 1980

THE SCOTTISH LIFE ASSUPANCE COMPANT THE CHAIRMAN'S STATEMENT **YEAR 1979**

HAVES I MEM LA Will look a Avartage of the very high interest rates to invest the bulk of our new troney in government securities. Accordingly from a record cash flow of EAS mixed about 60% was invested in gifts and other fixed interest and what are the hallower is excellent.

Benertand : 1979 results Ofrex Group Limited, Ofrex

Ofrex Group Limited

House, Stepher Street, London

Dividend up by 23% One-for-five scrip issue

Record sales - £44 million Record profit - 25 million

Babcock

Confidence in the future

		•
	1979	1978
·	£m	£m
TURNOVER	844.9	777.7
EXPORTS	151.0	153.0
PROFIT BEFORE TAX	32.0	39.6
PROFIT attributable to Ordinary Shareholders	25.5	24.6
EARNINGS PER SHARE	18.7p	25.3p
DIVIDEND PER SHARE	7.0p	5.8625p

- Sir John King, Chairman, reports:-
- * Improved results from North American activities. * Continuation of 10 years annual earnings growth interrupted by national strikes in U.K. and rise in sterling exchange rates.
- * Further investment, reorganisation and rationalization to improve competitive ability in current business climate.
- * New major acquisitions in U.S.A. and Canada extend product range and opportunities for growth in North American markets.
- * Main objective in 1980 is to reduce costs to maintain profits and to consolidate Group's strength.

* Ordinary dividend payment increased by 19% to an annual rate of 7p per share. Babcock International Ltd.

A LEADER IN WORLD-WIDE ENGINEERING

Lilleshall

Brown Boveri Kent dips as exchange losses bite

PRE-TAX profits of Brown Boyeri Kent (Holdings), industrial instrument manufacturer, dropped from £7.44m to £5.79m in 1979, with the second half showing a fall of £1.16m to £2.72m. These figures were struck after interest charges, up from £1.17m to £1.98m.

Directors say the disappointing performance reflected both the continuing recession in the main industries which the company serves and the non-familiar adverse effect on turnover caused

adverse effect on turnover caused by the rise of sterling.

Despite these problems, UK exports increased by 17 per cent, and for the first time provided more than 50 per cent of the turnover achieved by the UK-based companies. The reduction in profitability was partially caused by increased pressure on caused by increased pressure on margins in a generally depressed market, and also significantly increased interest charges.

British manufacturing industry is going through a difficult period, they add, and while prospects in industrial measure-ments and meters remain encouraging, thelow level of capi-tal investment in process plant for established markets gives cause for some concern.

The broad international nature

of the company, with several markets outside the UK continuing to be strong, should provide: figure turned in at £1.73m, after the opportunity for satisfactory a fall from £0.96m to £0.86m at

£,030 £,233

2.354

29,435 22,723 48

69.65 27.5 Ag

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performance. New manufactur-halfway.
ing facilities and products provide a sound foundation for back in Government spending, progress, in the future, they which has so far resulted in a conclude.

substantial reduction in spending projects and on supconclude.
Turnover during 1979 was up

from £81.12m to £86.4m.

comment Exchange losses accounted for Overcapacity in chemical and fillim against £245,000, with steel plant has depressed new minorities lower at £300,000 project starts internationally, (£736,000). There were expenses last time of £76,000.

Step 1020 (£1820) last time of £76,000.

After tax of £1.92m (£1.88m), net profit was down from £5.1m to £2.44m, and £1.25m (£3.32m) was credited to reserves. Stated earnings per 50p share are lower at £5.8p (£4.7), and the final dividend of 1.2p (same) leaves the total unchanged at 2.2p.

Directors say the discounts with a corresponding effect on Brown Boveri Kent's process control division. The business was also hit by Italian and UK strikes and high sterling in the face of U.S. competition. The group's trading profit shortfall looks to have been solely due to a slide in the 30 per cent or so contribution from controls.

Capital expenditure has increased bank borrowings to perhaps £12m, which will probably hold steady this year. Substantial recovery should come with an upturn in the capital investment cycle, but countries investment cycle, but countries ing and road maintenance like Pakistan and Korea will by accounted for 28.1 (26.2) per then probably be adding their weight to the competition. For the current year, perhaps £6m pre-tax is in sight, indicating a prospective fully-tax p/e of 6.3 at 31p, up 2p, on an historic 10-5 per cent yield.

£1.1m fall **Holdings**

A £1.09m decline in pre-tax rofits is reported by J. B. Holdings, construction and mechanical engineer, for 1979. The full year

on capital projects and on sup-plies of goods and services rather than in any curtailment of public sector overheads, reduced demand for the group's UK civil engineering and civil engineering supply Wilson

profits

up 54%

On turnover up by 11.4 per cent from £25.54m to £28.8m. Wilson (Connolly) Holdings has boosted profits from £3.53m to a record £5.45m for 1979, a 54.4

er cent increase.

And the dividend has jumped

to 7.25p, against 3,1311p, with a final payment of 3.75p net per 25p share. Also proposed is a one-for-one scrip issue.

At halfway, there had been a film advance to £2.58m.

the dividend cost; the amount retained came through at £2.15m

(£1.56m).

Basic earnings per share are shown as 48p (33.6p) and 47.4p (32.1p) fully diluted.

Mr. J. A. Leavey, chairman, says that in spite of bad weather at the beginning of the year, 1979 was good for house-building, with this division contributing, as previously, about 75 per cent of group profits—over 1,000 units were sold at an average price of

sold at an average price of £17,800 from some 50 sites.

raking trading, rents, interest and capital profits together. profits of the property sector were up by 90 per cent to £1.4m for the year.

The land bank of 7.000 plots would be valued at about £2.5m more than book value, Mr.

The property portfolio has been assessed at some £10m, which compares with a book

value of £6m.

The contracts side of the

business was less profitable than in 1978, but the chairman feels it did well to obtain 32

separate contracts and build 580,000 sq ft of factories, ware-

houses and offices. Currently, jobs for completion in 1980

amount to about 600,000 sq ft.

In the group's services division, which comprises plant

hire, plastering, and electrical contracting, "1979 was a year of hard decisions," the chairman

says.
Plant hire did well with higher profits. "but in plastering

and electrical we had to grasp the nettle and effectively wind-

up these operations and provide for closure costs £216,000."

BURNDEPT/CYFAS

The Kent-based Burndept Electronics, which is 51 per cent owned by the NEB and 49 per

cent by the Berec Group, has

acquired Cyfas, a private com-pany of Crawley, Sussex.

Burndept is one of the fore-most UK companies in the field of mobile and handportable

radios and related control systems. Cyfas is a leading

supplier to the similar markets

of computer-based communications and data systems.

Leavey states.

Taking trading, rents, interest

The year's tax charge £2.86m against £1.76m, and after

Connolly

activities. Also inflation and the increosed value of sterling affected the profitability of exports of overseas activities.

However, they now state that the current year should show a return towards the better results achieved in earlier years.

Earnings per 10p share for 1979 are shown to have Jahlen from 17.42p to 7.54p, but the total dividend payment is stepped up from 1.47p to 3p with a final payment of 1.5p net. On turnover of £30.57m (£25.4m), civil engineering, buildcent, civil engineering supplies 19.9 (21.5) per cent and engineer-ing and hydraulics 52 (52.3) per

A breakdown of pre-tax profits shows: civil engineering, etc. at £273,000 (£843,000 including £625,000 on final settlement of contract to construct an airport in the Falkland Islands), civil engineering supplies at £462,000 (£717,000) and engineering and hydraulics at £991,000 hydraulies . at .

(£1,253,000).		
	1979	19
	£000	£O
Turnovar	30,572	25.
Profit before tax	1.726	2,
Таж:	872	7.
Profit siter tax	854	1,
Extraordinary debit	49	
Available	805	1.
Interim div	150	••
Final	150	
Preference div	100	
Data!and	405	-

Steel Brothers declines but sees scope for improvement

DESPITE PROFITS from Canadian operations which were more than doubled in local currency terms, Steel Brothers Holdings, international trading and manufacturing group, saw its pre-tax surplus slip from £6.47m to £5.81m in 1979.

But the dividend is increased

from 7.15p to 8p net with a final of 4.85p and the directors say that, subject to world trading conditions, good scope exists for improvement in the current year, The surplus is struck after interest of £2.25m (£2.19m) and includes associates profits of £9.6m (£1.58m). The downturn was due to adverse exchange rates, lower profits from the Middle East and unexpected losses from rice milling and trad-

ing in the second half. £100.78m Turnover was £100.78m (£96.88m) and after tax of £2.65m (£2.92m), net profit was £3.15m (£3.55m); Stated earnings per 25p share are 23.78p

There is an extraordinary credit this time of £492,000 (£49,000 debit) and minorities take £494,000 (£384,000), leaving the attributable surplus slightly higher at £3.15m (£3.12m). Dividends absorb £919,000 (£822,000).

• comment

A shortfall in associate income provides the clue to Steel's proplems in 1979 and a swift pre-tax recovery depends on the fortunes of rice milling and more strengent control of stock and debtors in Middle Eastern food opera-tions. The Middle East contributed 48 per cent of last year's profits but Canada (41 per cent)

offers earnings of a somewhat Middle East food businesses can higher quality. Prospects in be switched to North America North America look encouraging, and the Far East (where a particularly since the Utah lime start has already been made) plant will be on stream in the and airline catering is another summer. But Weiner, in avenue for useful expansion. Holland, is a persistent headache. Adverse exchange rates probalthough the order book is sub-stantially better than the com-last year and, until the currency parable period of last year and hedge argument for overseas recent diversification may be traders is restored, the market's enough to tilt the balance very neutral verdict — marked between success and failure, by a near double digit yield and

Over the loner term, Steel is a fully taxed p/e of under 5 is confident that the recipe for its about right.

Mercantile Investment

tile Investment Trust gave their as suggested while the advar directors an easier time at yesterday's annual meeting than they did no the same occasion 12 months ago. Several, however, again expressed disquiet about the size of the discount between the company's net asset value and its share price.

Mercantile hit the headlines exactly a year ago when wore than 100 revel shareholders put forward a special resolution calling effectively for the company's liquidation. The resolution was easily defeated.

Yesterday, Mr. John Manser, investment director of Save and Prosper which through its unit trusts holds 6.5 per cent of Mer-cantile and which last year gave the directors two years to come up with a solution, questioned the board's dismissal of unitisation in the annual report.

Unitisation expenses beleived, could not be so onerous this sort of proposal.

tages of gearing would in any case be partly lost since half the prior charge capital and all foreign currency loans were Manser added that if the board thought redemptions would be high after unitisation and lead to management problems of the assets remaining in the portfolio, their fears should lead them to redouble their efforts "in searching for a means whereby the dis-count can be eliminated."

last year and, until the currency

Mr. Manser said the board's one "positive suggestion" was repaying part of the capital but instead, he asked, could the company not be split into two-an investment trust bolding gearing, unquoted securities and special situation: and a conventional unit trust.

Mr. Jerry Jamieson, Mercantile's chairman, said the company's lawyers were looking at

Carron Company



1979 RESULTS

"A pre-tax profit of £1,609,560 (31% increase on previous year) must be considered against the background of the engineering strike which lasted for almost three months during the late summer and hampered production until the year end. Home improvements and the 'DIY' market continued to provide the Company with the major portion of its demand. New house building continued to decline over the period. "There was again a substantial increase in turnover, which rose by over £6m (20% increase on previous year) and production in all spheres of the business ran at a satisfactory level except where disrupted by the industrial action to which I have

"During the course of the year the Company acquired Associated Metal Works (Glasgow) Limited. This Company manufactures stainless steel fabrications and will I hope prove to be a most useful addition to our business in an area where we already

"The Directors arranged to have the Company's properties re-valued and this has produced a re-valuation surplus of £2.8m. It is our intention to propose to shareholders at the forthcoming annual general meeting that a one for one bonus issue be made.

"The first three months of 1980 have not been without problems, caused in part by the steelworkers' strike. I am, however, pleased to say that the Company has operated at a reasonable profit throughout this period and has entered the 1980s with the widest range of products it has had to offer during the last fifteen years.

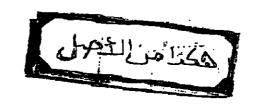
Colin Stroyan Chairman

THE RESULTS

Year to December .1978 32,022,000 Turnover : 1,609,560 1,225,567 Profit before taxation 1,028,635 1,443,960 Profit after taxation 3.968p Dividend for year (per share natt) 4,60p ·12.24p Earnings per share

Carron manufactures baths, sanitaryware, cookers, sinks, radiators and other building components, and general engineering products.

> CARRON COMPANY (HOLDINGS) LIMITED FALKIRK FK2 8DW

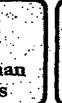


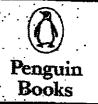
A publicly listed subsidiary of S. Pearson & Son



W(P) Westminster Press Times









Results for 1979

£200.26m	£175.87m
£25.67m £14.96m	£25.50m £12.72m
36.39p	30.06р
8355p	6.684p
	£25.67m £14.96m 36.39p

Pearson Longman did well to raise earnings per share and profit before tax in a very difficult year for the United Kingdom publishing industry.

The 1979 results demonstrated one of the advantages of our broad base of newspaper and book publishing interests. The newspapers were able to take advantage of buoyant demand for advertising to make satisfactory profits and to maintain their level of development expenditure. They also benefited from the lower cost of newsprint. The book companies were faced with a difficult United Kingdom market, particularly in Detailed results for 1979 will be included in the annual report the educational field, and a strengthening pound made them less competitive in overseas markets.

This is the first time for several years in which the board has not been restricted by limits on dividends imposed by legislation. Taking this into account, but also bearing in mind the difficult economic times that lie ahead, the board recommend a final ordinary dividend of 4.605 pence per share (payable on 2nd June 1980 to shareholders on the register on 9th May 1980), bringing the net total for 1979 to 8.355 pence per share compared with 6.684 pence per share for 1978, an increase of 25 per cent.

to be sent to shareholders on 7th May 1980. The annual general meeting will be held in London on 30th May 1980.

A copy of the full announcement is available from the Secretary Pearson Longman Limited, Millbank Tower, Millbank, London SW1P 4QZ. Telephone 01-828 9020

Thomas Tilling

1979-Profit before tax up by 25% to a record £81 million

1978

1979

<u>RESULTS</u>	£million	£million	%
Sales	1416	1026	38
Profit before Interest	104	75	· 39
Profit before Tax	81	65	25
PER ORDINARY SHARE	-	•	
Earnings	29.4p	24.6p	20
Dividend	7p	4.818p	45
Net Assets	146p	120p	22
NEW INVESTMENTS	£m	£m	
Fixed Assets	66	43	53
Acquisitions	76	32	137
			•

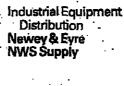
Principal Companies



Builders' Merchanting Graham Building Services



Engineering Clarkson DCE Vokes Gascoigne Hoboum . Ramteck







Construction Materials

and Services

CleCon

Palmers

Tilcon

Selwood



Medical Supplies InterMed

increase



Publishing Heinemann



Textiles **Pretty Polly**



Vehicle Distribution Stratstone

For the 1979 Annual Report please write to: The Secretary (1), Thomas Tilling Ltd., Crewe House, Curzon Street, London W1Y 8AX. Tel: 01-499 4151.

NORTH AMERICAN NEWS

Doubled income at Texaco

BY DAVID LASCELLES IN NEW YORK

TEXACO, the first large U.S. share up from §303.9m or \$1.11 new tariff on imported oil and yesterday said earnings had proceeds amounted to \$402.3m, nearly doubled for the period, bringing Texaco's total worldthough the volume of sales had wide income to just over \$1bn helped by strong prices, new exclusively to price increases.

This gain, which was some-

ings were \$600.6m or \$2.21 a affected by President Carter's in the U.S.

Sharp advance

IN THE first quarter of the

sharp rise in earnings on raw

materials sales at subsidiary Philipp Brothers, traditionally

At the beginning of this year, analysts were predicting a

trom \$4.90 a share in 1979.

150 industrial

metals.

catalysts for control of car

exhaust emissions to the major

car producers, where sales may

be hurt by the slowdown in the

and metal prices in the early

part of this year has trans-formed Engelhard's prespects

Sheikh raises

bid for bank

By Our New York Staff

over the weekend and iscussed

a figure of \$29.50 a share, which

about \$200m. Previously, a figure of \$25 had been

The Middle East group

The bank has resisted a full takeover and the Sheikh

already owns 18.6 per cent of

has said he will seek to replace

Financial General common

ington bank.

mentioned.

The upsurge in commodity

U.S. motor industry.

This division also supplies

raw

major

Engelhard's

zains over 1979.

in earnings

By Our Financial Staff

at Englehard

or \$3.69 a share. Mr. Maurice Ganville, chair- chemical earnings. what larger than Wall Street man, said the improvement in in Belridge, the Californian oil was due mainly to stronger company which Shil Oil bought petroleum prices, capital invest- from \$1.6bn in 1979. ment and streamlining. How-Texaco's first quarter earn- ever, the results had been on exploration and production

oil company to announce results in the same period last year. the windfall profits tax which for the opening quarter of 1980. On top of this, the Belridge came into effect during the quarter.

Non-U.S. earnings were also However, investments and higher petro-Mr. Granville said

had expected, excludes proceeds U.S. earnings, which accounted Texaco's higher earnings would from the sale of Texaco's share for 43 per cent of the total, enable it to increase its capital budget for this year to \$2.3bn Most of this would be spent

Texaco's first quarter sales (excluding Belridge), were \$13.25bn, up from \$8.36bn in the same period last year. this was due

Texaco's sales of petroleum products fell 9.7 per cent from last year and natural gas sales fell 8.6 per cent.

Production of oil and gas declined by 6.4 per cent to 3.5m barrels a day and refinery runs fell by 2.6 per cent to 2.8m barrels per day,

Kraft helped by currency gains

KRAFT, the diversified U.S. year, earnings at Engelhard Minerals and Chemicals have income in the first three months energy rocketed from \$47.5m or 73 cents a share to \$141.4m or \$2.09. chiefly secause of a bond purchases are excluded the increase is pared back to 1.3

food group, has recovered from modest profits growth was ance coming from Canada. the 41 per cent fall in profits attributable to the rapidly Another company to have in the last quarter of 1979. Net escalating cost of freight, benefited from foreign currency and packaging of this year was up by a quarter materials, as well as a tightenat \$65.1m, although if currency ing of margins of Cheddar and engineering group. The translation gains and company cheese within the U.S.

The company said that this much the strongest performadjustments In North America both sales which soared 73 per cent to and profits were higher, with \$120m.

Early setback for broadcaster

Engelhard said the significant INCREASED PROGRAMMING achieved record first quarter quarter 1980 pre-tax earnings. costs, including coverage of the revenues. Our own television Earnings are expected to fa were primarily attributable to crisis in the Persian Gulf, are station group reported increased Philipp Brothers division but blamed for a fall in first quarter revenues and profits, despite a added that previous metals operations showed substantial earnings at American Broad- progressive softening of its casting, operator of one of the saels environment as the quarter three national television net-advanced. works in the U.S. The board has "ABC Philipp Brothers, which provided 90 per cent of revenues and 67 per cent of profits in repeated last April's forecast that earnings for the full year 1978, is a major trader of more will be below the record \$5.67 a materials on world markets. share of 1979, but adds that 1980 The Engelhard Industries diviis expetced to be the second best sion is a leading fabricator of year in company history.

> Earnings dipped in the first to \$24.3m or 86 cents a share. although revenues increased from \$451.6m to \$546.9m. Commenting of the results for

> the first quarter Mr. Leonard H. Goldenson, chairman, and Mr.

"ABC Radio reported lower

profits on higher revenues. ABC Publishing, with the inclusion of results from Chilton, which was acquired in the second quarter of 1979, achieved higher profits and was a significant contributor to the company's overall revenue quarter from \$25.5m or 91 cents growth in the quarter. First to \$24.3m or 86 cents a share, quarter 1979 results include losses from ABC Records prior to its sale in March, 1979.

"The operating losses of the travel network and the writedown of certain intangible Elton H. Rule, presdent said: assets associated with its acqui-with advertis "Our television network sition significantly reduced first able growth.

Earnings are expected to fall this year because of increased economic uncertainty, more network competition, extraordinary news costs and costs associated with the travel network, the development of ABC Motion Pictures and ABC Video Enterprises.
The bulk of revenues—some

88 per cent in 1978-still come from broadcasting, with publishing turning in 5 per cent, recorded music 6.4 per cent and leisure attractions 1.3 per cent. The group owns five television stations and 13 radio stations in New York City, Los Angeles,

Chicago, San Francisco, Detroit, Houston and Washington DC.
Until the beginning of this year, the outlook seemed bright with advertising showing favour

World Airways profits drive

WORLD AIRWAYS has decided Union strike, which involved its transcontinental flights operat-THE HEAD of a Middle East group of investors, Sheikh Kam al Adham, appears to have increased the price he is pre-pared to pay for Financial General Banc shares, the Wash-Financial General said that

some of its directors, who are also principal shareholders, met \$11.3m or \$1.16 per share as would value the whole bank at against \$3.9m or 40 cents the previous year.
The Oakland, California-

based airline said that the improvement in revenues was largely attributable to the sale of three Boeing 727 aircraft during the year. The company's performance was seriously harmed through the grounding members of the board at the of its DC-10 fleet and the effects annual meeting on April 30. of a four month Teamsters

to launch a scheduled service flight and cabin crews and between Boston and London on mechanics. The company owns June 1 and has undertaken a seven DC-10s with orders on major fares-cutting programme another two and an option to As for the Boston-London in the U.S. to improve its finan-buy a third. It also operates service, Mr. W. A. Hardenstine, cial and operating perform-four 747s and four DC-8s. The the company's senior vice-presiance following a disappointing 747s are currently on lease to dent, sales and marketing, said

> under which it has offered one- decided. way California - Hawaii scheduled flights for \$69.99 and

financial result in 1979.

The company has reported a turnover of \$165.7m for the year compared with \$158.7m in 1978. Net income amounted to The daily would originate four days a scheduled flights for \$69.99 and East Coast-Hawaii fares of a week in Baltimore, with \$239.99. It also announced that Boston serving as the transit would charge \$139.99 for atlantic gateway point.

ing from Newark/New York and Baltimore/Washington to Los Angeles and Oakland.

Eastern **Airlines** hit by fuel costs

By Ian Hargreaves in New York

EASTERN AIRLINES, the Florida-based international carrier, saw its earnings slashed in the first quarter of the year in spite of a 30 per cent increase in sales and higher passenger and cargo volumes.

The company reports net income of \$3.5m compared with \$13.2m. Sales were up from \$662m to \$854m. Mr. Frank Borman, the

chairman, blamed the profits decline on sharply higher costs, especially for fuel, the price of which more than doubled over the same quarter of 1979.

Earlier this week Trans World Corporation blamed fuel cost increases at Trans World Airlines for its \$49.3m loss in the quarter.
At Eastern, traffic was stimulated by continued price

cutting and special marketing efforts. The company flew 7.4bn revenue passenger miles in the quarter, up from 6.9bn.
On average 63.83 per cent of its seats were filled compared with 64.55 per cent in the 1979 quarter, reflecting a sharp increase in the volume

of services offered by Eastern. Eastern said yesterday that its break-even load factorthe percentage of seats filled
—was now-63 per cent.

Paine Webber sees second quarter loss

YORK - Paine the securities trading house, expects to report a "material loss" for its second quarter because of a number of extraordinary

costs.
The company said results for the second quarter ended March 31 will not be released until the middle of May, pending completion of a full securities count and other auditing procedures by its independent certified accountants.

The company also declared its regular quarterly dividend of 11 cents. Mr. James W. Davant,

chairman and chief executive, fered extraordinary costs resulting from operations difficulties during the period of record high stock exchange volume in January and February. This followed the merger of Blyth, Eastman Dillon into Paine Webber. The company has estabpotential losses arising from the operational difficulties, and the securities and auditing procedures have been undertaken to establish the value of the reserve.

AMERICAN QUARTERLIES

and said he will seek to replace manual and savanting	MOUNT-OFFA FEMILE	! !
members of the board at the of its DC-10 fleet and the effects	1980	1979
annual meeting on April 30. of a four month Teamsters	Second quarter S	\$
		92.1m 1
	Net profits 4.89m Net per share 1.15	4.59m 1
Diging agets hit Dr. Dont		
Rising costs hit Du Pont	AMERICAN CYANAMID	!
		1979
BY OUR NEW YORK STAFF	First quarter S	-Sa- -
RISING RAW material costs Jefferson, said "it has not been	Revenue 830.0m 7 Net profits 38.0m	753 3m F 40.7m N
	Net per share 0.79	0.85
managing of Dr. Bone the learners	·	<u></u>
	BECTON DICKINSON	:
chemicals company in the U.S., very sharp rise in costs of		1979
and have caused a slight fall in energy, petrochemical raw	Second quarter \$	
earnings. Net income supped	Revenue	15.9m
	Net per share 0.90	0.77
sales grew to \$3.6bn from \$3bn. The cost of petrochemical	Six months	
This represented a 2 per cent materials was 66 per cent	Revenue 449.2m 3	85.2m ~
increase in volume. higher than in the first quarter		29.3m
Commenting on the fall in of last year and the rise in	Net per share 1.70	1.43 R
net profit margins from 8.4 per the silver price had an adverse	BORG-WARNER	N.
cent to 6.9 per cent. Du Pont's impact on the photo products	1980 1	1979 N
president. Mr. Edward G. division.	First quarter \$	\$ 1
productive sit. Daward of division.	Revenue 580,1m 6	
		35 2 m
<u> </u>	Net per share 1.68	1.65 R
	BURNDY	N
		979 "
	First quarter \$	S R
		35.9m N 5.03m N
	Net profits 7.07m 5 Net per share 1.14	o.usm N 0.81
ZIMBABWE		K
	CAPITAL CITIES COMMUNICATIO	NS -
		979
. I	First quarter \$	SR
Yesterday's Financial Times contained	Revenue	89.8m N 1.97m N
resterady s rimaneiar rimes contained	Ner per share 1.14	0.87
a special supplement on Zimbabwe.		
a special supplement on Zimbaowe.	CINCINNATI MILACRON	_
Outrage As a country of the country		979
Owing to a production problem a	First quarter 5	S Ro
l	Revenue	0.4m N
number of our readers were not able		0.69
		R
to obtain their copy of the newspaper.	COCA_COLA BOTTLING N.Y. *	No
to obtain their copy of the newspaper.		979 N
7		\$ JC
In view of the high reader interest in	Revenue 125.5m 11	Q.5m (~
	Net profits 1.81m !	
the newly independent Zimbabwe,		0.09 Re
	CONE MILLS	Ne
reprints of this supplement will be	1980 19	79 No
rebing of my subhrement will be		•
	Revenue 189.4m 167.	.98m Re
available in approximately 10 days time.	Not profits 12 82m 8.	.bəm i N.
	Net per share 2.22	1.49 ¦ '''
Should you wish to obtain copies of	CONSOLIDATED EDISON N.Y.	LT.
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these reprints they will be available at		\$
mese rehimies mes will be available at	Rovenue 978.0m 810	
		0.3m Ne
		1.12 Ne
	COX BROADCASTING	_ _
THE OVERSEAS DEPARTMENT.		(<u>M</u> E
TIME OF THE PROPERTY OF THE PROPERTY.	. 1980 199	
TITAL VICAL AND ALCO		S 1 5.8m Re
		5.6m Re .39m Ne
1		1.10 Ne
DO ACILIDAT TRATTOR	DRAVO	NA
	-	r nie

Revenue Net profits ...

EATON CORPORATION

_	·					
	FRUEHAUF			NORTHWEST BANCOR	P	
•		1980	1979		1980	1979
	First quarter Revenue	5 597 9	. enze.	First quarter	~ \$ ~~~	. ~ \$.
•	Net profits	. 9.49n	23.17m	Net per share	. 27.06m	0.9 0.9
3			3 1.91	OMARK INDUSTRIES		
	GIDDINGS AND LEW				1980	1976
	First guarter	1960 S		Third quarter Revenue Net profits	S	\$
	Revenue	. 79.9m	\$ 1 54.2m	Revenue	67.2m	53.8
į	Net profits	. 7.77m	5.54m		1.86	13.7
•	Net per share	. 1.23	0.91) Nine months		
	HARVEY HUBBELL			Net profits	794.0m	156.1
Ī	First quarter Revenue Net profits Net par share	1980	1979 S	Revenue	5.84	4.6
	Revenue	103.2m	89.0m			
	Net profits	. 7.57m	6.62m		1980	1979
1	Net per share	1.23	1.07	First quarter Revenue Net profits Net par share	\$	\$
	HUGHES TOOL	4000		Net profits	98.0m	93.8r 2.72r
	First oparter	1980	1979 S	Net par share	0.57	0.4
1	First quarter Revenue	. 238.8m	165.4m	JOS. SCHLITZ BREWIN		
.	Net prolits Net per share	23.97m	14.36m 0.67		1980	1979
1	INTERNATIONAL RECT		0.87	First guarter Revenue	S	\$
1	MIENNATIONAL REGI	1980	1679	Revenue	241.4m	242.7n
۱	Third guarter	\$	\$	Net profits	0.28	
ı	Revenue	40 9m	31.8m	t Loss		
Į	Net profits Net per share	2.45m 0.89	1.78m 0.67	SHELL CANADA		
١	Mana annatha			.	1980	1979
ļ	Revenue	113.6m	89 Bm	First quarter Net profits	CS	CS
1	Net per share	9.09M 7.46	4.31M	Not per shere	89.2m	46.1m 0.42
1	KELLOGG				V.U-	0.7
ł	<u></u>	1980	1979	SOUTHERN CO.		
ŀ	First quarter	\$	S		1960 \$	
1	Revenue	.513.6m	457.9m	Revenue	795.9m	712.7m
١	Revenue	3U.UM 0.65	47.3M 0.62	Net profits Net per share	63.03m	38.78m 0.27
ı	KENNAMETAL		==		U.44	U.Z/
Ì	107414V1000 1 VT	1020	1979	SOUTHERN PACIFIC		
ı	Third quarter	S	S	First quarter Revonue	1980	1979 \$
I	Third quarter Revenue	90.4m	70.9m	Revenue	678.6m	596.1 m
ı	Net per share	10.25m 0.85	10.11m	Net profits	8.93m	33.74m
ı	Nina months			legt her guals	0.33	1.26
۱	Revenue	234.1m	192.6m	SPRINGS MILLS		
l	Net per share	21.71m 2.31	23.2431	5	1980	1979
1	JONATHAN LOGAN		- 1.00	First quarter Revenue Net profitz . Net per share	3 220 2→	100 2-
l	ANIMIUMIS FAGURE	1000	1870	Net profits	22U.Jm 8.88m	8.02m
ļ	Fourth duarter	1900	Š	Not per share	1.00	0.91
ļ	Revenue	100.0m	97.6m	STERNDENT		
	Fourth quarter Revenue Net profes	†1,46m	601,000		1980	1979
l	Not per share	TU.28	0.12	First quarter	\$	\$
l	Revenue	426.1m	400.7m	Suverue	60.5m	51.6m
	Revenue	5.79m	7.26m	Net profits	1.33m 0.60	1.19m
l	Net per share Loss	1.11	7.39	Net per share	U. Q U	0.54
1				TEXACO CANADA		
1	LTV	-804	- 	Einst anager	1980	1979
1	First guarter	1980 S	1979 S	First quarter Revenue	C\$ 834.7m	C\$ 632,2m
	Revenue	1,59bn	1.98bn	Net profits	93.2m	48.1m
ı	Net profits	26.4m	43.6m	Net per share	2.91	1.42
	Net per share	0.86	1.52	THICKOL CORPORATION		 -
!	MELVILLE CORPORATIO		l		1980	1979
ŀ		1980	1979	First quarter	\$	S
١.	First quarter	\$ 434.9m	369 5m	Revenue		135.5m
	Revenue	7.15m	6.3m	Net profits	8.58m 1.66	7.31m 1.26
	Net per shara	0.28	0.25	TRANSAMERICA		
	NATIONAL CAN		—— j		1000	
-		1980	1979	Third quarter	1980 °	1979 \$
	First quarter	5	S	Revenue	1.08bn 8	38.8m
	Revenue	288.1 m 9.55 m	239 9m 5.62m	Net profits	58.8m .	
	Net profits	9.95 0,95	0.58	Net per share	0.50	0.88
	NORTHWEST INDUSTRIE			TRANSWORLD CORPORA		
:		1980	1979	First quarter	1980 °	1979 S
	First quarter	5	\$		1.09bn 8	

Growth in direct sales boosts Xerox results

BY JOHN MAKINSON IN NEW YORK

A STRONG rise in direct sales to \$1.86bn. The company said later in the year. although margins were brought cent. under pressure by the high cost

growth was outstripped by the developments should have an ment was about 15 per 16 per cent increase in revenues impact on sales and earnings higher, the company said

helped to increase the first quar- that direct sales were up. by 24 ter earnings of Xerox Corpora- per cent while rental and ser- should see continued growth in tion, the copier manufacturer, vice revenue was up 12 per revenue and profits, despite the

of product development and ad- tail market by opening the first in profit margins over the year. verse foreign exchange fluctua of a series of "supermarkets During the first three months tions.

The company of the year, the number of Earnings increased from will use the chain to market its copies made world-wide of \$137.4m to \$148.4m, but this new small copier, the 550 These Xerox leased and sold equip

economic incertainties. Xerox recently entered the regroup earlier forecast a decline

3M again set for record year

GROWTH SLACKENED at while sales advanced 15 per Net earnings for the whole Mnnesota Mining and Manufac- cent, from \$1.3b to \$1.5bn. of 1979 were a record \$563m turns (3M) in the first quarter of ts current fiscal year. Net earnings totalled \$167.3m or electrical products and advertise \$1.43 a share, an increase of 10 ing to health care and consumer per ct on last year's correspod-prioucts, is confidet of another strong ng \$152.1m or \$1.30 a share, record year.

But the group, whose diverse \$4.56bn.
ctivities range from abrasives, Mr. L. W. Lehr, vicelectrical products and advertis- chairman, said international

results were excellent with strong increases in unit

Straight dollar bonds decline

THE MAJOR sectors of the and hte conversion premium is tend the maintity on a bond it Eurobond markets have expect quietened down afte rmore than cent. cent lower on the day. Good demand enabled Dean

have expected to be about 15 per arranged in 1975 which was due

private placement carrying a fended for five years. Witter Reynolds to cut by ‡ per group of banks led by UBS. Morgan Stanley would cut the cent to 14‡ per cent the coupon Handelsbank, meanwhile, has indicated coupon of 14 per cent

a week of frenzied activity. In the hard currency sectors, company would have suffered Straight dollar bond prices prices of foreign D-Mark bonds heavy exchange losses had the eased by as much as a full point were unchanged with Swiss bond been repayed on schedule. yesterday morning but later franc bonds gaining i of a The initial coupon of 9 per cent recovered some of the lost point on average. The EIB has has been reduced to 71 per cent ground to close about i per arranged a SwFr 50m six-year and the bond's maturity ex-

It was expected last night that on the \$50m seven-year offering for Portland General Electric NV. The issue has a final completed a SwFr 25m private on the C\$30m five-year issue it placement for Nichimo which is plannehed for Tordom last week guaranteed by Daiwa Bank. This results from good demand. price of par.

A \$15m 15-year convertible coupon of 7½ per cent for five ance last Monday of a C\$50m years. The lead manager is issue for Canadian Imperial launched yesterday through Dillon Read. The borrower is paying a coupon of 9½ per cent Swiss Bank Corporation to except.

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FT INTERNATIONAL BOND SERVICE

The list shows the 200 latest international bond issues for which an adequate secondary market exists. For further details of these or other bonds see the complete list of Eurobond prices published on the second Monday of each month. U.S. DOLLAR

Continental Grp. 9¹, 86

Dome Patroleum 10 94

So 89², 99², +94, 12, 18

Dominion Bridge 10², 84

So 91², 32², -0², +2², 12, 78

EIB 11², 92

Steoorfin 11², 87

Export Dv. Cpn. 9², 84

Export Dv. Cpn. 9², 85

Export Dv. Cpn. 9², 84

Export Dv. Cpn. 9², 85

Export Dv. Cpn. 9², 84

Export Dv. Cpn. 9² FLOATING RATE

DEUTSCHE MARK
STRAIGHTS

Australis 31, 90

Asian Dev. Bk. 74, 89... 100

Afincan Dev. Bk. 74, 89... 100

Bercilaya 0'3 sep 4 -0'4, +2'4, 9.36

Bercilaya 0'3 sep 5 sep 100

Bercilaya 0'3 sep 6 sep 100

Bercilaya 0'3 sep 6 sep 100

Brazil 8 87

150

STRAIGHTS

Brazil 8 87

150

Bercilaya 0'4, +0'4, +2'4, 8.59

CECA 7 91

150

SSP, 934, +0'4, +2'4, 8.59

CECA 7 91

150

SSP, 934, +0'4, +2'4, 8.86

CECA 7 91

150

SSP, 934, +0'4, +1'4, 8.86

CECA 7 91

150

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STRAIGHTS

STRAIGHTS

Change on

Lasued Bid Offer day week Yield

30 85½ 88½ +0½ +2½ 10.55

20 78½ 78½ +0½ +5½ 10.48

12 87½ 88½ +0½ +5½ 9.8%

10 85 86 0 +3½ 10.73

10 79 80 0 +5 10.72

Iges... On day +0½ on week +4½

Change on

issued Bid Offer day week Yield

... 25 78¹/₂ 78¹/₂ + 17¹/₄ + 11¹/₃ 15.82

5 60 88¹/₄ 88¹/₃ + 17¹/₂ + 3 12.33

30 85 87 - 10¹/₂ + 0¹/₃ 16.70

5 50 88¹/₄ 88¹/₃ + 13¹/₂ + 17¹/₄ 13.82

5 60 88¹/₄ 88¹/₃ + 17¹/₂ + 17²/₄ 13.92 Avco Fin. 10% 86 CS ...
Bell Canada 10% 86 CS ...
Cr. Fancier 10% 84 CS
Ex. Dev. Cpn. 10 84 CS
Fat. Can. Inv. 10 84 CS

Norwey 94: 34 FT 100
Philips Lamps 84: 84 FF 76
Air France 11 84 FFr 120
CECA 149: 86 FFr 150
Euratom 94: 87 FFr 150
Finland 11: 89 FFr 70
Gaz de France 11: 84 FFr 120
Gaz de France 11: 84 FFr 120
Renault 94: 85 FFr 120
Saint-Gobaln 94: 85 FFr 120
Scittcorp 0/S 137: 97 Fr 125
Cittcorp 0/S 137: 97 Fr 125
Cittcorp 0/S 137: 97 Fr 125
Fin. For Ind. 127: 88 F 20
Fin. for Ind. 127: 88 F 30
Fin. for Ind. 147: 88 F 20
Gen. Eisc. Co. 127: 88 F 50
Indonesis 84: 91 KD 7
Missublahi 77: 84 KD 10
Norges Kom. 77: 89 KD 12
Occidental 84: 91 KD 7
Akzo 94: 87 Luxfr 500
Euratom 94: 88 Luxfr 500
Volvo 94: 87 Luxfr 500
FLOATING RATE

No information available—pravious day's price. To importation available—previous days price.

1 Only one market maker supplied a price.

Straight Bonds: The yield is the yield to radamption of the mod-price: the amount issued as monitions of currency units except for Yen bonds where it is in billions. Change on weak "Change over price a weak sufflict. Change on weak "Change over price a weak sufflict. The was indicated. Coupon shown is minimum. Gode—Bett was not coupon becomes effective. Spread Margin; shows six-month offered rate (4 three-month: 5 shows mean rate) for U.S. deliets. C.pn—The current coupon: C.yid=The current yield.

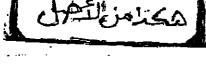
Convertible Bonds: Denominated in deliars unless otherwas indicated. Chg. day—Change on day. Chv. date—First date for conversion into shares. Curv. prices Nonicel amount of bond per share suppassed in currency of share at conversion rate fixed at lease. Prem—Percentage premium of the current effective pince of sequiring shares, with bond over the most recent price of the shares.

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New model

leads Ford

Australia

By James Forth in Sydney

record A\$951m (U.S.\$1bn).

ings recovery in the latest year.

rose from 123,544 vehicles to 133,527 despite a slight easing in Australian vehicles sales in

The company boosted export sales from A\$19.9m to A\$30.5m. which was the best export performance since 1973.

recently announced plans for an A\$300m expansion pro-

gramme, including a new plant

By Our Sydney Correspondent

AUSTRALIAN PAPER Manu-

facturers (APM) is studying the

expansion would be in addition

to a new A\$200m plant, consideration of which is already under way with the large base metals mining group, MIM

The Marvvale study continues APM's major expansion thrust of the past 12 months, which has

included the acquisition of

several companies. The pro-

posed Maryvale expansion of the pulp million would lift annual

production by 80,000 tonnes of softwood kraft pulp, to replace

grades of pulp currently imported. The plant would also produce 60,000 tonnes a year of

bleached eucalypt kraft pulp, a substantial proportion of which might be sold on the export market. The softwood would be drawn largely from APM's own

If it goes ahead the develop-

ment would consolidate the

Maryvale complex as one of the

major decentralised industries

In another move in the timber industry, H. C. Sleigh has made a A\$7.1m takeover bid for Tasmanian Board Mills

Sleigh is offering A\$1.60 a

share in cash, which compares with the last sharemarket price of 73 cents. TBM directors have recommended the bid. Last

August, Sleigh made a A\$15m bid for Tasmanian Pulp and

Forest Holdings (TPFH) but

was topped by Associated Pulp and Paper Mills (APPM). After several bids, APPM won the day

with an offer valuing TPFH at A\$30.6m. Sleigh directors said

that the activities of TBM com-plemented those of Northern Woodchips, a division of H. C. Sleigh Resources, and added that TBM would be co-ordinated with Northern Woodchips.

The additional facilities and

resources would provide in-creased opportunities for a broad range of forest products.

TNT to raise

A\$11.26m by

By Our Sydney Correspondent

THOMAS NATIONWIDE Trans-

port, the international transport

group, plans to raise A\$11.26m (US\$12.3m) through a rights

The new shares will be issued on a one-for-five basis to share-

on a one-mr-nye basis to share-holders optionholders and holders of 1985 convertible notes, and on a one-for-15 basis to holders of 1983 convertible

notes. The issue price is only

50 cents a share, compared with

the current sharemarket price in Sydney of A\$2.40. On this basis the rights have a theoretical value of A\$1.53. TNT this week reported an

87 per cent jump in profit for the nine months to March of A\$27.88m, well ahead of the A\$23.25 earned for the full year

rights issue

plantations.

in Victoria

APM plans

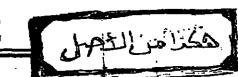
expansion

further

produce four cylinder

a A\$4.6m profit.

upsurge



t sales Akzo results continue recovery in first quarter

BY CHARLES BATCHELOR IN AMSTERDAM

ARZO. THE Dutch chemicals recovery in profits last years as and Brazil. It expects to inand fibres group, expects a "satisfactory" in its annual crease fixed asset investment by
"satisfactory result" in 1980 on report. Turnover rose 13 per at least F1 100m to F1 580m
the basis of business levels in cent to F1 12bn. Higher volume this year. Projects worth
the first few months. This of sales accounted for 5 per cent F1 890m were approved last
follows a sharp recovery in of the rise and price increases year compared with F1 449m in
profits last year.

Welker Stevin the dredging

Akzo believes it is in a "much down 7 per cent to Fl 2.60n.

The "hard" element in last stronger" position after its reverse net profit of Fl 230m structuring of the past five structuring of the past five structuring of the past five affected by the losses of Nether-lands of the past five affected by the loss

dividends to these "hard" profits. to selected markets in Western Group. NOC has been wound. The company describes the Europe, North America, Japan up and its assets sold. hard" profits.

the rest.

The company said it intended profits last year.

The company said it intended in relate "more closely" its dividend payment to profits. This could lead in future to greater functions in the annual payout, Akzo warned led to a rise of F1 190m in the first proposes paying F1 2.40 per last for 1979 having last paid F1 4 in 1974.

The "hard" element in last year's net grofit of F1 250m with the very structuring of the past five year's net grofit of F1 250m workforce by 21,000 to 83,000 it workforce by 21,000 to 83,0

It has restricted its activities minster and Hollandsche Beton

Heavier losses for Kleber

BY TERRY DODSWORTH IN PARIS

THE RECOVERY hopes at shares in Kleber are believed forecast of the profit and loss Kleber-Colombes, the French to be owned by Michelin, the account tyre company which severed its highly profitable giant of the connections with Semperit of French tyre industry, which interferes very little in the rundecision of the safety authorities sharp knock from raw material ning of Kleber. sharp knock from law price increases during 1979.

Gonsolidated losses rose to plan for Kleber after the ending of its co-operation agreement of its co-operation agreement agreement of its co-operation agreement of i

The results follow signs in the company's research first half of 1979 that Kleber's Paris head office: first half or 1919 that restructuring plan was paying off, with losses reduced from 1999-49 fm to FFr 44.7m. Kleber been unable to recoup the in-crease in its material costs by Sales have risen 17 per cent in higher prices on its tyres, and the first three months of this

with FFr 98m in 1978, while with Semperit by putting up a timover rose 13.2 per cent to FFr 2.59bn. Depreciation backed by a FFr 100m bank facility and the sale of the company's research centre and

In a further effort to reduce costs, Klever also cut its labour force and closed down one of says, however, that it has since its factories to try to get back

expenses on restructuring. this can be attributed to infla-- About 50 per cent of the tion and Gleber has not given a 12 per cent.

decision of the safety authorities in favour of its V-10 and V-12 tyres, which have been under serious attack for several months from the Federation of Consumers' Associations.

While the federation has questioned the safety of these tyres, safety officials said that they would not be withdrawn from the market. Tests have shown no evidence of a manufacturing defect in the tyres the authorities said.

Kleber's parent company losses last year amounted to feasibility of a A\$130m (U.S.\$143m) expansion of its big pulp and paper mill at Maryvale in Victoria. The proposed FFr 93.6m after a depreciation charge of FFr 54m. Exports of this has been aggravated by the year. But a substantial part of FFr 2.13bn accounted for 38.4

Sandoz posts first quarter gains

BY JOHN WICKS IN BASLE

improved in the first three dividend.

appreciation.

Group cash flow rose 5.4 per board has already announced decrease—due to exchange rate tions.

SALES AND profits of Sandoz, that it will recommend payment changes—of 2.1 per cent to the Swiss chemical company, of an unchanged 26 per cent SwFr 376m last year. In the agricultural chemicals

months of this year. All pro- After a 3.6 per cent improve- sector, the group anticipates and duct sectors increased from a ment in pharmaceutical sales that growth will continue at rising at least as fast as turn- expects to consolidate its strong 9.9 per cent to SwFr 289m last

over, Dr. Yves Dunant, chair market position with new proyear.

Sandoz AG, said.

Growth potential for dye turnover fell 7.4 per cent last "Last year," business was stuffs, sales of which recovered year to SwFr 464m because of "satisfactory in the light of last year rising 8.5 per cent to the removal from consolidated economic conditions," he added. SwFr 1.17bn, is limited due to totals of the Nigerian-Ovaltine Turnover rose 3.4 per cent to to probable stagnation in the subsidiary, Sandoz expects an SwFr 4.44bn (\$2.56bn) despite textile industry. However, fur-acceleration in sales of Ovaltine relimiz hne plant in Martin, South Carolina, strengthening of its market will be the biggest single position in dietetic foods.

east in 1979 to SwFr 432m and capacity investment in 1980. Dr. Dunant said the Sandoz group profits 10.9 per cent to Sales o fihe group's seeds bid of \$37 per share for SwFr 173m. From parent division, whose operations are McCormick, the U.S. spices comcompany net earnings of concentrated in the U.S., are pany, remained the basis for SwFr 80.8m, up 2.1 per cent, the developing well after a slight any further acquisition negotia-

Net earnings of FM 31.89m (\$8.61m) compare with

(\$8.61m) compare with FM 29.38m in 1978, after taxes

and full permissible deprecia-

ciples would have been about

FM 153m. Long-term debt at the end of 1979 was FM 721m.

Nokia's prospects in 1989 are

described as "satisfactory." Investment expenditure will rise

Sachs board ousts chief executive

By Roger Boyes in Bonn

THE SUPERVISORY hoard of Richtel und Sachs, the major German clutch manufacturer effectively ousted the group's chief executive, Herr Walter, Trux, by refusing to renew his four-year contract after it expires later this year. The company gave no reason yesterday, saying only that the move was agreed by over two-thirds of the 16-member board. It was clear, however, that the action

followed policy disagreements:

Herr Trux, formerly of IBM has come in for considerable criticism recently for not reduc ink quickly enough the company's dependence on the motor industry. He has nonetheless achieved a good deal of success in diversification and has iniated a range of environmental engineering and energy saving products that will come on to the market in the 1980s. Moreover, over the past four years sales turnover has increased by 50 per cent, with parent company turnover last year reaching DM965m (\$536m) and group sales totalling over DM1.6bn. First quarter order books are healthy and further sales and profit increases are forecast for the year.

Nokia tops up dividend as profits improve

BY LANCE KEYWORTH IN HELSINK

NOKIA, ONE of the largest privately owned industrial confighly significant for the future glomerates in Finland, is raising development of the group." its dividend to 10 per cent from 8 per cent following increased

profits. Consolidated turnover rose 24 per cent to FM 3.2bn (\$839m), tion. Depreciation is booked at of which the parent company FM 107m, while depreciation accounted for FM 2.5bn. computed on current cost prin-Exports were worth FM 1.2bn, and if the sales of overseas subsidiaries are added, the total for international activities was FM 1.6bn, or 46 per cent of

Mr. Kari Kairamo, president to FM 300m, compared with the and chief executive, stressed in annual report that the

previous peak of FM 275m in 1975 and FM 144m in 1978. Rinascente moves back to profit

BY RUPERT CORNWELL IN ROME

time since 1974. It is planning to pay a dividend of L600 per share, the first such distribution L5bn in 1977. for six years.

RINASCENTE, one of Italy's bank each have substantial largest store groups, returned interests, reported 1979 net to profit last year, for the first earnings of almost L12bn (\$13.8m) compared with a loss of L274m in 1978, and one of

Sales climbed by a fifth to The company, in which the signs are that the buoyant financial group Sogef, the financial controlled Istituto Financiario Industriale (IFI) over rose to L145bn, despite and the Mediobance merchant the tradional seasonal slackness.

to 2 from 4 per cent Net assets of Rerento's stable companion, Robeco, fell in the first quarter of this year. Despite continued net purchases of

Total net assets fell 3.5 per cent to Fl 3.78bn during the quarter. Robeco bought in 750,000 shares reducing the number issued to 24m while value per share eased by Fl 1 to

to June, 1979.

TNT declared a quarterly dividend of 3 cents, and if this is maintained in the final quarter it will give an annual dividend payout of 12 cents, compared with 11 cents in

ESTIMATES OF the capital cost of the Alumax aluminium smelting project in the Hunter Valley, New South Weles, has been sharply revised to A\$641m (U.S.\$700m) from earlier estimates of A\$535m, agencies

The venture will be 45 per cent owned by Alumax of Australia, 35 per cent by the BHP offshoot Dampier Mining Company and 20 per cent by the Mitsui-owned Alfari. JAPANESE SUPERMARKETS.

Upward trend in earnings continues

continued their upward earn-operating ings trend in the fiscal year fiscal year. ended February, 1980.

FORD AUSTRALIA boosted profit sharply, from A\$4m to A\$16.2m (U.S.\$17.7m) in the Dai'el achieved annual sales of Y1,000bn (\$4bn) the first company to do so in Japan's retail industry. The strong sales performance was largely year to December, but the directors consider that the return on total assets was still accounted for by an increase in floor space resulting from the far from satisfactory. The result opening of eight new sales out-lets. Brisk sales of profitable products such as leisure related was achieved on an 8 per cent sales gain from A\$812m to a goods and household utensils also boosted turnover. Earnings The introduction of a new model XD-Falcon was a major reason for the big jump in earnings. Ford is the last of the "big three" vehicle manualization. improved by 29 per cent to Y9.17bn (\$36.7m). This was due chiefly to a reduction of interest payments following the repayment of bank borrowing facturers to report a solid earn-

and the switching to low co funds in the capital market. Chrysler Australia staged a turnround, from A\$20.5m to a profit of A\$12.3m, while General Motors-Holden's con-verted a deficit of A\$18.4m to Dai'ei plans to continue its policy of expanding sales outlets in the current fiscal year. Capital spending for the open-A dividend of A\$3.3m was paid to Ford's U.S. parent during the year, out of 1978 ing of 10 or 11 new sales outlets is planned at Y50bn, of which ¥30bn is intended to be raised in the domestic capital market profits, but no dividend has been declared from the 1979 and in the overseas convertible earnings. Ford's total unit sales issue market. The rest is to be

> reserves. The four increases in the official discount rate during

financed partly from internal

Ito-Yokado lifted turnover by 17 per cent to Y573.5bn (\$2.33bn) helped by active sales of household utensils (up 22 per cent) and foods (up 33 per cent). The company

opened eight new outlets dur-

accounted for the 17 per cent by Y2.5bn however and utility improvement in operating price rises will also hurt profits. profits to Y12.6bn (\$50.4m).

By strengthening inventory For the current fiscal year, interest payments are expected to increase by Y2bn and the company plans to compensate by stringent inventory control

ing the year.

The company's 37 per cent profitable goods. With the help advance in earnings to Y10.8bn of 12 or 13 new outlets, sales 9.17 10.8 7.4 6.3 4.7 3.7 18.12 20.6 12.6 11.4 9.9 6.8

(\$43.2m) came with steps to for the current year are fore-streamline distribution. Ten cast to increase by 11 per cent, new sales outlets are planned and operating profits by 15 per for the current fiscal year with cent capital spending of Y35bn. Ito Yokado's sales are forecast to cent in the current fiscal year.

Jusco's sluggish clothing sales

With active expansion of its sales floors, Nichit's turnover sales, its main line, were increased by 14 per cent to sluggish. Nagasakiya plans to Y396.9bn (\$1.59bn). However, improve earnings by stressing reach Y680bn, up 20 per cent, increased by 14 per cent to and operating profits are expected to increase by 12 per a Y5bn increase in interest payments and the impact of the ven's deprecation on loans held back operating profits. Nichii

JAPAN'S six major super-saving energy, Dai-el is fore-terest burden was relieved by intended to raise through market chain store operators casting double figure growth in a reduction of Y5bn of borrow-public subscription. Interest ing in 1979-80, which largely payments are likely to increase By strengthening inventory Nichii expects sales of Y46bn (up 24 per cent) and operating profits of Y13bn (up 14 per cent) for the current fiscal year. Uny enjoyed overall sales improvements in food, house-hold utensils, and clothing (up

10 per cent each). A reduction in interest payments, achieved by cutting dow nboth long-term and short-term borrowings by Y11.3bn, contributed to a 20 per cent improvement in operating profits to Y9.9bn (\$39.6m). For the current fiscal year the company expects operating profits of Y10bn.

Nagasakiya alone suffered an earning setback, of 5 per cent to Y6.8bn (\$27.2m), in 1979-80. Heavy interest payments resulted from high borrowings interest and because of the warm winter, the company's clothing goods, by holding down sales costs, and by renovating exist-ing stores. Sales are expected 1979-80 are expected to take full were offset by increased turn-plans an increase of 26 per cent to increase by 7 per cent and effect in the current fiscal year, over in food and household in capital investment to Y40bn opperating profits by 18 per but by sales expansion and utensils. The company's in-this year, funds for which it is cent in the current fiscal year.

Exchange rate lifts Tan Chong

TAN CHONG, the Malaysion and rising by 24 per cent against cent final dividend, making 25 Singapore distributor of Datsun the Japanese yen in 1979. cars, has reported a near threefold increase in earnings for 27 per cent to 430m ringgitt the year to December, to 65.5m 27 per cent to 430m ringgit the year to December, to 65.5m ringgit (U.S.\$28.8m) before tax. The half-year pre-tax profit was rose by 29 per cent to 310m 26m ringgit.

Althogh the company maintained its position as the leading car distributor in Malaysia and Singapore, the profits resulted largely from foreign exchange gains, with the Malaysia ringgit

The group's turnover rose by U.(S.\$189m). Sales in Malaysia ringgit, and in Singapore by 24 per cent to 120m ringgit.

Datsun sold more than 17,400 cars in Malaysia last year, capturing a quarter of the market. Tan Chong is paying a 17.5 per cut by some 8 per cent.

per cent for 1979 on the enlarged capital of 48m ringgit, compared with 20 per cent on the pervious capital of 36m

Last week, the Malaysian Trade Ministry directed Tan Chong and other distributors of Japanese cars to reduce prices because of the strength of the ringgit. Datsun car prices are

Group results at Canon

By Our Financial Staff

CANON, the Japanese manufacturer of cameras and business machines, raised its consolidated net income by 4 per cent in the year to December 31, to Y8.67bn December 31, to Y8.67bn (\$34.7b), from Y8.34bn in the

previous year.
Sales increased by 40.9 per cent to Y314.99bn (\$1.3bn). from Y223.59bn. Earnings a share were Y40.03, against

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Bergen Bank

Christiania Bank og Kreditkasse

Hambros Bank Limited

Agent Bank

Bergen Bank

April, 1980

New Rorento payout policy

the intrinsic value of its shares. Rorento shares on issue in the Shareholders who wish to take a dividend can do so by selling to a net decline of 7.4m issued a percentage of their holding, shares to 21m, while assets fell the six-year-old fund, which from Fl 3.8bn (21 5hn) is based in Curacao proposes. thsi change in order to avoid modifications to the tax treatment of offshore funds in the make a fundamental change in

the attractiveness of its shares. The announcement of the pro-posed increase in tax and the The fund will pay profits into decline in bond prices led to a a general reserve and so increase sharp fall in the number of

An "assessment of energy developments" led Rorento to Netherlands. The Dutch Govern- investment policies, moving out ment plans of raise, retroactively of energy-poof to energy-rich number from January, the tax on off-countries. This persuaded value per shore fund dividends. The Rorento to put 24 per cent of FI 157.

securities, is to scrap cash dividends in favour of capital dividends in an attempt to improve the attractiveness of its shares.

The announcement of the arms.

its own shares, asset value per share fell slightly.

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U.S. \$30,000,000 FLOATING RATE NOTES 1984

For the six months 23rd April, 1980 to 23rd October, 1980

in accordance with the provisions of the Notes. notice is hereby given that the rate of interest has been fixed at 1875 per cent, and that the interest payable on the relevant interest payment date, 23rd October 1980 against Coupon No. 3 will be U.S. \$84.19.

Agent Bank: Morgan Gueranty Trust Company of New York, London

THE DOLLAR SPOT AND FORWARD

WAGONS-LITS

Messieurs les Actionnaires sont convoqués aux assemblées générales qui se tiendront à Bruxelles, à l'Hotel Astoria, 103 rue Royale, le Mardi 6 Mai 1980:

1.) à 14 heures 45: Assemblée Générale Extraordinaire qui devra se prononcer sur la proposition d'augmentation du capital de la société pour le porter de francs belges 779,240,000 à francs belges 1,038,986,500.

En représentation de cette augmentation de capital, il serait créé 519,493 actions ordinaires nouvelles d'une valeur nominale de francs belges 500 chacune, émises au prix de francs belges 750 par action, et offertes, à titre irréductible seulement, aux propriétaires d'action, anciennes, privilégiées ou ordnaires, à raison d'une action nouvelle pour trois actions anciennes; ces actions nouvelles porteraient jouissance à partir de la date de cloture de la

Il serait, en outre, procédé à la modification de l'article 5 des statuts.

2.) à 15 heures: Assemblée Générale Ordinaire pour approbation des comptes de l'exercice 1979 et nominations statutaires.

Les actions doivent être déposées cinq jours au moins avant la date des assemblées:

à BRUXELLES: à la Société Générale de Banque, 3 Montagne du Parc, à la Banque Bruxelles-Lambert, 2 rue de la Régence — à la Société Générale Alsacienne de Banque, 72 rue Royale – à la Banque de Paris et des Pays-Bas, Belgique, World Trade Center, 162 boulevard Emile Jacqmain — à la Banque Jean Degroof & Co., 44 rue de l'Industrie.

à LONDRES: à la Midland Bank Limited, 30 St. Swithins Lane.

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Notice is hereby given to bondholders of the above loan that the Deutsche Mark (1 ECU = DM 3.66) has been selected as payment currency for drawn debentures and Coupon No. 9. The drawn debentures and Coupon No. 9 will be payable on or after May 1, 1980 by the paying agents mentioned on the

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GRASSE: world capital of perfume industry—authentic provençal style country-aumentic provence style country-house-perfectly restored in a 15,000 sq. m. park-unbreakable view—300 century-old olive-trees—60 sq. m. living room—mezzanine—5 bedrooms—15 sq. m. swimming-pool—exceptional opportunity—3,000,000 FF. 5,\$.1.

25 bis, Boulevard Konnedy, 06800-Cagnes-Sur-Mer. France Tel: (93) 20 59 59 Talex: OREM 470 673 F

EXECUTIVE SUITES OF MAYFAIR—Visit-ing London on business or pleasure? Why not stay at our quict, exclusive guest house at 19 Charles Street, Maypuest nouse at 19 charies street, May-fair. Or at one of our tastfelilly furnished apartments in nearby Park Street, con-sisting of two bedrooms, lounge, kitchen, bathroom, colour T.V., etc. Within walking distance of Park Lane, Piccarilly, Band External

PARIS XVIeme TOWN HOUSE

off Place des Etats-Unis 22,000 sq. ft.

MAGNIFICENT RECEPTION 15 bedrooms, 10 bathrooms and

dressing-rooms. 6 staff-rooms and garage for 8 cars.

GROUPE PIERRE BATON

21 avenue Paul Doumer 75016 Paris Tel: 704 55 55 Telex: 630 855 F

FLORIDA International Realty of America Inc. in association with Osceola County Developments Ltd. invite you to their exhibition of Flonda Homes, Businesses and lowestments.
Homes from £3,500 to £150,000 plus.
Deposits start at £1,400. visit us at the Sheraton Heathrow Hotel (Heathrow Airport) on the main A4 Colnbrook By-pass from 24th to 26th April, 1980, 10sm to 10 pm daily. USA and UK representatives will be in attendance. For further information contact: OSCEOLA COUNTY DEVELOPMENTS
LIMITED

FLATS TO LET: Regent's Pk., nr. Baker St. Elegandy form, 3 Rm, Flat. Tcl., Col. T.V., C.H. £110 p.w. ASC 229 9061.

LEGAL NOTICES

IN THE MATTER OF **GRASS FASHIONS LIMITED** AND IN THE MATTER OF THE COMPANIES ACT 1948 NOTICE IS HEREBY GIVEN that the

creditors of the above-named Company. which is being voluntarily wound up are required, on or before the 29th day of May, 1980, to send in their full Christian and surnames, their addresses and descriptions, full particulars of their debts or claims, and the names and addresses of their Solicitors (if any), to the undersigned Keith David Goodman, FCA, of Mesers Leonard Curtis & Co., 3/4 Bentinck Street, London W1A 38A, the Liquidator of the said Company, and, if so required by notice in writing from the said Liquidator, are, personally or by their Solicitors, to come and prove their debts or claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distri-

button made before auch debts are

GENERAL MINING AND FINANCE CORPORATION LIMITED (incorporated in the Republic of South Africa)

COUPON NO. 118
Holders of share warrants to bearer
will receive payment on or after the
2nd May, 1586-at the rate of
41.78273p the amount declared per
share loss 6.26741p being South
Airlan Non-Resident Shareholders'
Tax ef 15% against surrender of
Coupon No. 110.
Coupons must be deserted.

Coupon No. 110. be deposited for THREE CLEAR DAY's for inspection before payment will be made: In London, at National Westminster Bank Limited, Stock Office Sarvices, 5th Floor, Drapors Gardens, 12 Throgmorton Avenue, London EC2. In Paris, at Credit du Nord, 6 & Boulevard Massmann, in Banke, at Swiss Bank Corporation. In Zurich, at Credit Suisse. Coupors belonging to holders resident in Great Britain and Northern dent in Great Britain and Northern

Coupers belonging to holders resident in Great Britain and Northern Ireland will be paid as follows:

Listing forms can be obtained on application to the National Westminster Bank Limited, at the address shown above. By Order.

GENERAL MINING AND FINANCE
CORPORATION LIMITED
L. J. BAINES
London Secretary

29.24791

Princes House. 95 Grasham Street. LONDON ECZV 7EN. 23rd April, 1980

NOTE: Under the double tax agreement between the United Kingdom and the Resubik: of South Adrica, the South Adrica. Non-Resident Shareholder? tax applicable to the dividend is allowable as a credit against the United Kingdom tax agayable in respect of the dividend. The deduction of tax at the reduced rate of 15 per cent instead of at the basic rate of 30 per cent represents an allowance of credit at the rate of 15 per cent.

The grass amount of the dividend received to be entered by the Individual shareholder on any return for income tax purposes is 41.782739 multiplied by the number of shares held.

W. F. JOHNSTONE MOTENTY LIMITED (Incorporated in the Republic of South Africa)

Interim Ordinary Division of twenty four per cent adulvalent to twelve cents per share £1979 fournison per cent seven cents per share ly 39 payable to Ordinary Shareholders registered in the books of the Company at close of business on 16th May, 1980. Dividend declared in currency of Republic of South Africa and warrants in payment will be posted to shareholders on or about 6th June, 1980. In terms of income Tax Act non-resident shareholders' tax of theen per cent will be deducted from dividends due to shareholders whose addresses in share register are outside Republic. Transfer books and Register of Members with be closed from 17th May, 1980 to 6th June, 1980, both days inclusive.

By Order of the Board. By Order of the Board.
A. D. BRUNT, A.C.I.S.

Registered Office: 10 Quality Street. Mobeni. Natal. Mobeni, Matal. South Africa. Loudon Transfer Secretaries: HIR Samuel Registrars Limited. 6 Greentoat Place. London SW1P 1PL. 21st April, 1980.

UNILEYER N.Y.
ertificates for Ordinary Sub-Shares of FI 12 issued by N.Y. Nederlandsch Administratie En Trustkautoor

En Trustkantoor

NOTICE IS HEREBY GIVEN that
EXCHANGES of Sub-Share Certificates
in the name of Midland Bank Executor
and Trustee Company Limited. now
MIDLAND BANK TRUST COMPANY
LIMITED, for Bearer Certificates and
Unilerer N.V. New York Shares and
vice versa will be SUSPENDED from
9th May. 1980, to 22nd May. 1980.
Certificates will only be acceptable
for exchange after 22nd May. 1980,
grovided that alli dividends declared
prior to that date have boon claimed,
N.V. NEDERLANDSCH
ADMAINSTRATE
EN TRUSTKANTOOR.
Unilever House.
Blacktrans.

Unilever House, Blackirlars, London EC4P 4BQ. 21st April, 1980. ROYAL BANK OF CANADA NOTICE IS HEREBY GIVEN that a Dividend of 60 cents per share upon the paid up capital of this bank has been declared for the current quarter and will be payable at the Bank and its branches on or after May 23rd, 1980 to shareholders of record at the close of business on April 24th, 1980.

By Older of the Board. R. A. UTTINS. Executive Vice-President & Chief General Mahager.

PUBLIC NOTICES

TRAVEL

CHARTERING A LUXURY YACHT
NEED NOT COST THE EARTH
We have large Reet of fully wered
sall and noner yachts for charter in
the Greek Islands. French Rheets, the
Balearies and the West Indies, All have
been personally inspected and we have
a large selection of brochures and
celous phetographs in the London office.
Please contact Patrick or Patricia Boyd.
Camper & Nicholson Yacht Agency.
16 Regency Street. London SWIP 4DD.
Tel: 01-821 T641
or Tx. 918078 NICLON

GENEVA, Basie, Zurich and Berne, widest choice of cheap lahrs from 4 U.K. air-ports. Brozhore FALCON 01-351 2191.

ROTTERDAM THE NETHERLANDS

ANNUAL GENERAL MEETING OF

On Wednesday, May 14, 1980 at 10.30 a.m. in the "Kleine Zest" of the "Concert- en Congressebouw do Doelen " entrance Kruisplein 30, AGENDA
Annual Report for 1978.
Approval and adoption of the
Belance Sheet and the Profit and
Loss Account for 1979 and adoption of the proposed Profit
Appropriation for 1979.
Appointment of the Board of
Directors.
Appointment of Auditors.

Directors.

A Appointment of Auditors.

Questoats.

This agenda, the Annual Report for 1979 victoding the Salance Sheet, the Profit and Loss Account, the proposed Profit Appropriation and the nominations relating to items 3 and 4 of the agenda are available for inspection by shareholders and holders of certificates stated by N.V. Nederlandsch Administratic en Trusticantoor at the Company's office, Burg s. Jacobolein, Roterdam, and at the offices of the Sauls mentioned below, where copies may be obtained free of charge.

(A) Holders of bearer sharets or subshares wishing to attend the meeting either in person or by proxy appointed in writing must deposit their stare certificates and subshare certificates by Wednesday, May 7, 1980, at the Company's office or at the offices of the Austerdam-Rotterdam Bank N.V. in Amsterdam-Rotterdam Bank N.V. in Brussels; of Widshand Bank Limited in London, or any of the branches; of the Coreditanstalism Berlin; of the Coreditanstalism Berlin; of the Schweizerischer Bankverein, the Oesterreichische Länderbank A.G. or Schoekler & Co. in Vienna, or any of their branches, of the Schweizerischer Bankverein (Swiss Bank Corporation), the Schweizerischer Bankverein (Swiss Bank Corporation), the Schweizerischer Bankverein (Swiss Bank Corporation), the Schweizerischer Regionary of New York in New York City. Upon production of the recent them issued to them such to be admitted to the meeting.

1980. Holders of certificates for shares in Unilever N.V. issued by N.V. Nederlandsch Administratie-en Trusticantoor of Amsterdam "Nedamirust certificates" wishing to attend the meeting without taking part in the volting must deposit such certificates by Wednesday. May 7, 1980 at any of the offices mentioned in (A) above. Upon production of the receipt then issued to them, such certificate holders will be admitted to them. Œ)

receipt then essued to them, your certificate holders will be admitted to the meeting. Holders of certificates for shares in Unilever N.V. Issued by N.V. Noderlandsch Administratie- en Trustkantoor in the name of Midland Bank Exceutor and Trustae Company Limited for in its former hame Midland Bank Exceutor and Trustae Company Limited), "sub-share certificates". Wishing to attend the Meeting without taking part in the voting must deposit sub-share certificates with Midland Bank Exmitted. Mariner House, Penys Street. London. EC3N 4DA or any of its Granches by Wedenday, May 7, 1980. Upon production of the receipt then Issued to them such sub-share certificate holders will be admitted to the Meeting.

duction, of the receiot than issued to them such sub-share certificate holders will be admitted to the Meeting.

If holders of the certificates mentioned in (D) and (E) above wish to exercise voting rights at the meeting either in person or by proxy appointed in merson or carriage for the merson of change such that the certificates iree of charge for original shares, which it will hold in the names of such holders at its own office is such holders at its own office is such in the event) and exchange the same again after the meeting free of charge for Medambrusk certificates to be issued to such holders in accordance with the conditions of administration of these certificates. For such promote holders must by Tuesday, May 6, 1980; must be promoted four. If the capture of the continuous of Fig. 1,000 or a multiple thereof the processes of the continuous of Fig. 1,000 or a multiple thereof to N.V. Nederlandsch Administratice en Tuestkantoor, Keizorssgracht 583. Amsterdam, and/or sacrender for Fig. 12 mominal

stratic- en Trustkanbor. Keizorsgracht 553. Amsterdam, and corthicates for Fl. 12 nominal amount of multiples thereof. The presenting a total nominal amount of at least Fl. 60 per class that, in the case of sub-share certhicates for 77.2 cumulative pretence shares, representing a total nominal amount of Fl. 1.000 or a multiple thereof to Molland Bank Limited. Mariner House, Peprs Steet. London ECSN 4DA or any of its branches. The certificates so surrendered must be accompanied by a reduct in writing as described in the conditions of administration, forms for the phreose being obtainable free of charge from N.V. Nederlandsch Administratie- of Trustkantoor. Amsterdam, and Midland Bank Limited, tondon, Upon production of the receipts then issued by N.V. Nederlandsch Administratie- on Trustkantoor and Midland Bank Limited conductively the holders will be admitted to the meeting.

The receipt issued by Midland Bank Limited for sub-share certhicates so surrendered incorporates a two-way proxy form. surrendered incorporates a two-wa proxy form. THE BOARD OF DIRECTORS April 23, 1980. Rotteroam.

SALES BY AUCTION

Important Auction Sales May 8th through May 31st 1980



Oil on panel. 16,5157,5 cm.

Important PARSTRAGS of the 18th through the 18th cenhujes; Amigoni, I.F. Beich, P. Brucchel d.L., von Coylenborch, F. Francken, E. van Heemskerck, Meister der van Groeteschen Ambeting, Savery, Verburgh, Verhaucht, Watsen, Wysk, Tiez, Painings of the 19th and 20th centuries; Brauner, Chagall, Corinh, Corot. Derain, van Doogen, Griffanton, B.C. Koekkoch, Lorean, Luac, Mangum, Monticell, Pippel, Poljakoff, Pougny, Renoir, Romault, Seiz, Schischkin, Stademann, de Mael, Toulouse-Lautree, Uriflo, Valtat, Vimmuck, Vailland, Wierus, Kowalsta, Zingel et.

WATERCOLORS and GRAPHIC WORKs of the 19th and 20th century;
Rate French Flankture of the 19th, 18th and 19th century, many pieces stamped. A large collection of RUGS and carpets, tapestre, Rate CLOCKS, Backet dooks, SCULPTURE and BRONZES.

European PORCELAINE and FAIENCE.

SILVER, collection of MINIATURES. SPULFBOYES. ICONS, MEDUEVAL ART and CRAFT.

CRAFT.

A large collection of GLASS and ART MOUVEAU.

IMPORTANT COLLECTION OF ORIENTAL ART: Tibel, Nepal; India, Thailand, Ching and Japan: Sariptone, Jacquerware, Dory, Jude, Southeauthe, printings, Isubau, Far

castern ceramics, include, include, include, include, include, paramics, issued. Fire castern ceramics.

Important JEWELS.

Over 40 VENEAGE CARS, exhibited May 18th through 31st in the big mail of the eGlatter Shopping Center.

PRESTEW And 25th through May 6th, doily from 10 a.m. to 10 p.m. On Theoday, May 6th, that day of embition from 10 a.m. to 6 p.m. On Sumbays, April 25th and May 4th from 10.30 a.m. to 10 p.m. After May 6th and small the day of the sale, appointments may be made for private viewing.

We publish the following catalogues:

We publish the following catalogues: Furniture, Arts and Crafts SFL 30,— Piemes, 16th to 20th century, Graphic Art and Scalpure, 19th and Oth careary SFL 30,— Calendar o'Csales: Maylith + 9th May 10th May 13th May 16th Rugs and carpets

Jenets

Paintings

Graphic works and Asizo and Far Lasters works of Art Jessels Veteran, Vintage and SFr. 25.~ SFr. 25.~

SFr. 15.-

Galerie Koller Zürich Rännstrasse 8, 8024 Zürich, Tel. (01) 47 50 40 Telex 58500 and Markets

CURRENCIES, MONEY and GOLD

& £ firm

THE DOLLAR and sterling were dollar was fixed at DM 1.8565, generally firm in subdued foreign compared with DM 1.8512, withexchange trading yesterday. Both out any intervention by the Buncurrencies were helped by expectations that the U.S. and Britain are likely to be less Swiss franc to DM 1.0719 from severely hit by a cut-off of DM 1.0700. Iranian oil supplies than Japan and the rest of Europe.

The U.S. currency rose to DM 1.8610 from DM 1.8510 against the D-mark, and to SwFr 1.7385 from SwFr 1.7250 in terms of the Swiss franc. The Japanese yen remained weak around Y250, and all major currencies continued to decline against the dollar in New York shortly after the London close. On Bank of England figures, the dollar's trade-weighted index rose to 88.9 from 88.7.

Sterling's index, as calculated by the Bank of England, rose to 73.5 from 73.2, after standing at 73.6 at noon and 73.7 in the The pound opened at \$2.2460-

2.2470. and touched a peak of before declining to \$2,2425 at noon. In the afternoon sterling touched \$2.2325, but improved to \$2.2400, before closing at \$2.2370-2.2380, a rise of 45 points on the day. Sterling rose to DM 4.1650 from DM 4.1350 against the D-mark, to FFr 9.68 from FFr 9.6125 against the French franc, and to SwFr 3.89 from SwFr 3.8550 against the Swiss

D-MARK — Slightly improved within the European Monetary System, showing a stronger trend against dollar, after a weakness caused by expectations of a continuing balance of payments defi-cit in Germany and effects of anti-inflation measures and higher interest rates in the U.S. —The D-mark showed mixed changes against its EMS partners at the Frankfurt fixing, while has abated—The Tokyo market losing ground to most major currencies outside ethsystem. The of Iranian oil shipments to French franc, strongest member of the EMS, fell to DM 42.97 per 100 francs from DM 43.03, but the

desbank. Sterling rose to DM 4.1640 from DM 4.1260, and the

ITALIAN LIRA-Rather erratic within EMS, and falling to hot-tom of the system in recent weeks, after rising to the top during February-The lira gained ground against most members of the EMS at the Milan fixing, but declined against the dollar and sterling. The D-mark fell to-L468.75 from L469.48, and the French franc to L201.54 from

L201.92. Outside the EMS the dollar rose to L870.80 from 1.868.55, and sterling to L1,948.60 from L1,941.25, while the Swiss franc fell to L501.65 from L503.80. FRENCH FRANC-Strongest

member of the EMS, supported by firm interest rates—The franc eased against most major currencies at the Paris fixing, declining against the dollar, and sterling, but improving slightly against the Swiss franc. Within the EMS the D-mark, Italian lira, Belgian franc, Dutch guilder and Irish punt gained ground against the franc, but the Danish krone

DANISH KRONE-Remaining weak within the EMS and suffer-ing two devaluations during the last year—The krone weakened against its EMS partners and other major currencies at the Copenhagen fixing. The dollar improved to DKr 5.8010 from DKr 5.7805 and sterling to DKr 13.0170 from DKr 12.8705.

JAPANESE YEN-Energy and balance of payments problems reflected in sharp decline last year, which after a slight pause has been renewed, aithough heavy central bank intervention of Iranian oil shipments to Japan, with the yen fluctuating narrowly in light trading. The dollar rose to Y250.10 from Y249.85, after opening at Y250.20, and to well as a part of the state of the stat Italian lira, the weakest EMS Y249.85, after opening at Y250.20, currency, rose to DM 2.135 per and touching a low point of 1,000 lira from DM 2.132. The Y249.85.

+0.57 +0.57 -0.83 -0.11 -0.10

+1.53

EMS EUROPEAN CURRENCY UNIT RATES

+1.50

+0,83 +1.95

against ECU April 22

40.3809 7.88241

2.51925

1180,41

Changes are for ECU, therefore positive change denotes's week currency. Adjustment calculated by Financial Times.

| Spread | Close | Circ month | p.s. months | p.s. months

f UK and Ireland are quoted in U.S. currency. Forward premiums and discounts apply to the B.S. dollar and not to the Individual currency.

THE POUND SPOT AND FORWARD.

April 22	Spread	Close	One mouth	9.8	Titles months	X P.S.
us.		2-2370-2-2350	0.08c pm-0.02 dis		0.18-0.05 pm	
Canada	2 6460-2 6585		0.70-0:60c pm -		1.95°0.95°pm	1.3
Nothind.	4.657-4.6072	4.56%-4.57%	Sr24c pm	7.22	Pa-6's pro	. 4.34
_ Balgium	65.60-67.10	66.65-64.75	5c pm-5 dis		iO p in pir	. 0,30
. Denmark	12,55-13,01	12.97 - 12.97 -	T-2 ² core dis	-1.44	9-75 dis	-2.14
irelend	1.1110-1.1170_	1,1115-1,1125	0:06-0.03p pm	0.59	0.31-0.26 pm	7.02
W. Ger.	4, 147, 4, 18	4.16-4.17	35-25pt pm .		B's-7% pan_	`` 7.92
- Portugal	111,90-112,70	111.96-112.16	12c pm-22 dis		8-128 dia	-2.80
- Spain	159,80-160,75	159,85-159.95	10-45c dis		5-145 dis.	-3:00
italy	1,947-1,957	1,948-1,949	Tylre pm-4 dis		pos-1 dia	
Norway	11.25-11.31	11.27 - 11.28 2	47-3-ore pro		%-5% pma∷	÷ 3,17
France	9.667-9.72	9,67-29,68-2	47, Ste pm	4.85	11-10 pm	. 4.34
Sweden	9.72-9.76	9.73 . 9.74 .	31-21-00 pm	3.65	7-74 pm	334
Japan .	557-565	559-660 ·	2.65-2.20y pm		5.60-5.15 pm	· :2.84
Austria	29:60-29:74	29.65-29.70	24-18gro par		5-45 pm	. 634
Switz.	3.86 - 3.90	3.25° 3.29° 2	4-3c pm	10.80	P83. pm	9.57
			e Garanial	france &	9 AE 00 AE	

Beigien rate is for convertible france. Prinancial franc 88.45-68.65.
Six-month forward dollar 0.15-0.05c pm. 12.month 1.10-0.85c pm.

CURF	REN	CY RA	TES :	CURRENCY	MOVE	MENT
sil 21	Bank rate	Special Drawing Rights	European Currebsy Unit	April 22	Bank of England Index	Morgan Guerant Changes
	15.96	1,27535. 1,50757	1,60830	Starling	-88,9 80.7	-52.2 -4.7 -17.7
ie Sch en F sh K rk	14 15 7	16,8407 Unavail. 7,36758 2,36089	17.9305 40,4886 7,84629 2.51476	Austrian schilling Beiglan franc Banish krober Deutsche mark		+84.0 +13.7 -5.0 +43.8
or	91 <u>.</u> 15	2,59338 5,48774 1107,62	2,76508 5,84985 1180,85	Swiss franc Guilder French franc	194.0 194.8 100.4	+76.5 +19.3 -6.3
gn. Kr ish Pts	.9 9 8 10	319,725 6,42129 91,1223 5,53646	332,904 5,83753 97,2028 5,89774	Yen	, 110,4	+14.3
France	1 3	Unavall	2,54724	Washington agrees	nent Dece	nber, 197

OTHER CURRENCIES

-	April. 22	.2			Note Rates
- -	Argentina Peso Australia Dollar Srazil Gruzoiro. Finland Markka. Greek Drachma Hong Kong Dollar Iran Risl Luxembourg Fra- Maiyyara Dollar New Zealand Dir, Saudi Arab. Riysi. Bingapora Dollar, Sth. African Rand	107.43.108.45 8.48.51 93.424.95.616 11.12;11.14; 0.612.0.622 65.65.66,75 5.1125.5.1228 2.3465.2.3516 7.42.7.52	0.9118-0.9120 48.14-48.34 5.8000-1.9020 41.90-42.20 4.9700-4.9730 92.749-0.9750 92.779-29.81 2.2540-2.9860 1.0495-1.6505 5.3290-3.330	Austria. Beiglum. Demmark. France. Germany. Italy Japan Netheriands. Norway. Porhigal Spain Switzerland. Unibed States.	29,55-29,80 68,20-68,80 12,92-12,99 9,61-9,67 4,14-4,17 1920-1985 559-564 4,55-4,58 11,24-11,51 107-1111-51
	U A.E. Dirham	8,50-8,40	8.7210-8.7240	Yu oslaviz	4819-5134

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EXCHANGE CROSS RATES

rates

7.72336 2.48208

0.668201 1167.79

Belgian Franc ... Danish Krone ...

German D-Mark

Italian Lira

April 22	PoundSterling	U.S. Dollar	Deutschem's	dapan'seYen	FrenchFranc	Swies Franc	Dutch@uild*	Italian Lira Canada Dolla	r Belgian Franc
Pound Sterling	0.447	2,238	4.165	569,5	9.680	5,890	4,575	1949. 2,649	\$6,70
U.S. Dollar		1.	1.861	250,1	4,326	1,759	2,044	870,0 1,184	29,81
Deutschemark	0,240	0,537	7.444	134.3	2.324	0,954	1,098	467.8 0.636.	16,01
Japanese Yen 1,000	1,787	3,999		1000.	17.30	6,955	8,172	3483. 4.755	119,2
French Franc 10	1,088	2,311	4.303	578.0	10.	4.019	4.724	2018. 2.737	68,90
Swiss Franc	0,257	0,575	1.071	148.8	3,488		1.175	500.9 0,681	17,15
Dutch Guilder	0,219	0.489	0.911	122.4.	2,117	0,851	2,847	426,1 0,579 -	14.59
Italian Lira, 1,000	0,513	1,148	2.138	287.1	4,968	1,995		1980. 1,560	34.23
Canadian Dollar	9.378	0,845	1.572	211,2	3.654	1.468	1,726	-785.6	25.18
Belgian Franc 100	1.499	5,355	6.944	828,8	14.51	5.862	6.855	2921, 3,972	100.
								1.00	

Divergence limit %

±1.53 ±1.64 ±1.125 ±1.3567 ±1.512 ±1.668 ±4.08

EURO-CURRENCY INTEREST RATES

The following nominal rates were quoted for London dollar certificates of deposit: one-month 17.00-17.10 per cent; three-months 16.50-16.70 per cent; six months 15.30-15.40 per cent; one year 14.10-14.20 per cent.

l	April 22	Sterling	U.S.Dollar	Canadian Dollar	Dutch Guilder	Swiss France	West German Mark	Franch Franc	italian Lira	Asien \$	Japaness Yen
	iShort term	174-1738 174-178 1778-178 1678-1678	17-1714 171g-173g 172° 173g 17-1714 16-1614 143g-151g	13-15 13-15 147g-151 ₂ 155g-16 151 ₄ -155g 141 ₄ -148g	1014-101g 1014-101g 1014-101g 1012-1034 1012-1034 1012-1034	31g-41g 7-8 6-6-61g 7-71g 7-71g 61g-65g	813 915 813 915 813 915 914 915 813 915 818 9	1214-1214 1214-1214 124-1214 124-1214 1319-1214 1319-1314 1519-1314	11-13 11-1314 17-18 - 17-18 1319-1719 1612-1712	1759-1754 1758-1754 1718-1714 1618-17-5 16-6-16-8 1478-15	1034-1114 11-1119 1235-1219 13-1314 1256-1219 1114-1114
	Long-term Eu	rodoilar two ye	ars 1373-1373	per cent; three	years 13-13½ c	ser cant: four	years 13-13k p	or cont five v	uns 124-13 per	cent namina	Cineing rates

Short-term rates are call for sterling. U.S. dollars, Canadian dollars and Japan sae yan; others two days' notice. Asian rates are closing rates in Singapora.

GOLD

INTERNATIONAL MONEY MARKET

French rates firm Paris but recent statistics put the

continued to rise yesterday, with call money reaching its highest level this month at 12% per cent, up from Monday's figure of 12% per cent. Period rates were also higher where changed, with three-month money 12¹⁰ per cent, against 12¹ per cent. Within the European Monetary System, the French franc remained the most improved currency specifications. currency. reflecting the authorities firm intention to maintain a strong currency.
In Frankfurt call money was

unchanged at 8.95 per cent, while longer term rates showed an easier tendency. Three-month money fell to 10 per cent from 10.1 per cent and six-month money was lower at 10 per cent against 10.25 per cent previously. The easing of longer term rates was mainly technical according to market sources, reflecting the improved liquidity situation now that tax payments have largely been paid. But although market conditions are generally stable at the moment, there is a good deal of nervousness in the market following two Bundes-bank meetings in the past two weeks coupled with official policy of maintaining a tight monetary

A revised market liquidity level of SwFr6bn will not indicate level of SwFr6bo will not indicate ment of monday's inducate can mans at the start, but later pushed up the cust of over any tightening of monetary advances. On the other hand balances were taken as low as money to 17-17; ex cent. In the interbank Rates in the table belo National Bank in Zurich a moderate way above target, market overnight loans opened nominal in some cases. yesterday. A previous estimate published last December put the level of liquidity at SwFr7bu

MONEY RATES

NEW YORK Prome Rate Fad Funds Treasury Bills (13-week) Treasury Bills (26-week)	187-17 12.65
GERMANY Discount Rate Overnight Rate One month Three months Six months	7 8.95 9.22 ¹ , 10 10
FRANCE Discount Rate Overnight Rate One menth Three months Six months	9.5 12.875 12.8875 12.8125 12.8125
JAPAN Discount Rete	9 12.25 13.9062

present level of liquidity more at SwFr6bn. However, the National Bank is to provide additional funds towards the end of this month which should increase limitation. increase liquidity levels to about

UK MONEY MARKET

help

Lending Rate 17 per cent (since November 15, 1979) Day to day credit continued to be in short supply in the Lon-

Bank of England Minimum-

of help for over a month. They bought a small amount of Treasury bills, all direct from discount buoses, and a small number of local authority bills both from discount houses and banks. The market was faced with a small net take up of Treausry bills to finance and the repayment of Monday's moderate advances. On the other hand

Small

don money market yesterday, and the authorities gave assistance on a small scale, the lowest level

Firmer tone

Gold rose \$8 to close at FFr 70,550 (\$507.65) in the \$503.508 in very quiet trading morning, and FFr 72,500 in the London bullion market. (\$524.04) Monday afternoon. The metal opened at \$490.495 In Frankfurt the 124 kilo har endural was fixed at DM 29,640 per kilo was fixed at DM 29,640 per kilo and was fixed at \$494.50 in the (\$497.00 per cance), compared morning, and \$502.40 in the morning, and finished at the highest level of the day.

So5: Compared with \$502.507**

So5: Compared with \$502.507**

So5: Compared with \$502.507**

**Total Compared with \$502. morning, and finished at highest level of the day.

....In Paris the 12½ kilq gold bar previously.

was fixed at FFr 71,000 per kilo in Zurich gold closed at previously.

was fixed at FFr 71,000 per kilo in Zurich gold closed at previously.

April 21 Gold Bullion (fine ou (\$224,8.227) (\$218.1.220.3) (\$220,336) (\$224,186) Gold Coins (\$227-230) (\$254-239) (259-61) (271-73) (271-75) #156-141 #635-640 #485-466 #685-646

and there was a moderate excess. at 17-17; per cent and rose on of Government disbursements the early forcest to 17-17; per over revenue transfers to the cent before coming back to 16-17 per cent by noon. Duting the affectnoon rates fell away to up to 17 per cent for secured the affectnoon rates fell away to up to 17 per cent for secured purpled up the cost of overnight manner to 17-17; per cent are the start, but later pushed up the cost of overnight manner to 17-17; per cent are the start, but later pushed up the cost of overnight. Rafes in the table below are

LONDON MONEY RATES

	1300	Sterling Certificate of deposit	interbank	Local Authority deposits	Local Auth. Reguliable bonds	Hotise	Company Deposits	Discount market deposits	Transurv	Eligible Eank Bills #	Fine Trade
7	Over night. 2 days notice. 7 days or. 7 days notice. One month. Two months. Three months. Six months. Whe months. One Year. Two years.	17%-17% 17%-17% 17%-17% 15%-16-7 16-15% 154-15%	16-171 ₂ 171 ₄ -172 ₅ 171 ₄ -172 ₅ 171 ₄ -172 ₅ 173 ₄ -171 ₅ 173 ₄ -171 ₅ 161 ₄ -165 ₈ 16-161 ₈ 163 ₄ -157 ₈	1719-1758 1759-1758 1758 1768 1718-1759 1669 16-1618 1654-16	1834-1819 1834-1819 1834-1819 1779-1749 1665-1614 1619-1614 1619-1678	175	17-171 ₂ 171 ₂ -177 ₂ 178 ₄ -181 ₆	16-17 	15: ₆ -15:2 15:4 16:4	17% 17%	174- 176- 176- 16

Local authorities and finance houses seven days' notice others seven days' fixed. "Long-term jous! suithority a rates nominally three years 154-15's per cent; four years 143-15's per cent; five years 143-15's per cent. Seek ! in table are buying rates for prime paper. Buying rates for four-month bank bitle 155-16's, per cent; four-month to

17 per cent.

Approximate selling rates for one-month Treesury hills 1523-1573; per cent two-months 1623 per cent the months 1623 per cent. Aproximate selling rates for one-month hank bills 172 per cent two-months 17 per cent the months 163-1633; per cent one-month trade bills 172 per cent two-months 177 per cent sed three-months 177 per cent two-months 177 per cent sed three-months 178 per cent Finance Houses Sage Rates (published by the Finance Houses Association) 18 per cent two-months 179 per cent sed three-months 179 per cent Finance Houses Association) 18 per cent from April 1, 1880, Clearly Bent Rates for tending 17 per cent.

Bills: Average tender rates of discount 16.1176 per cent.

Bond Street, and Grosvenor Square, For details please contact London 01-499 7741-2 or Telex 298639. Dated this 17th day of April, 1980. K. D. GOODMAN, Liquidator.

Sir Monty Finniston joins Bodycote

appointed a non-executive direc-tor of BODYCOTE INTERNA-TIONAL and has also joined the Board of its engineering sub-sidiary, Blandburgh.

and

Mr. Edward Rose, chairman Mr. Edward Rose, chairman and BANRO CONSOLIDATED BANRO CONSOLIDATED INDUSTRIES, has been appointed to the additional post of chief executive. Mr. John Mooper, finance director of Banro, has become chairman of EDWARD ROSE (FRANCE), a company formed to control the group's acquisition of a majority shareholding in Farnier and Penin; of France. Other homobers of the Board of the new concern are Mr. Edward Rose, with A. V. Pitcher, Mr. R. N. Pitgrasi, Mr. Perre Balloffet and Mr. J. C. Hillaire, Mr. Balloffet Mr. J. C. Hilaire. Mr. Balloffet is president, directeur general of Farnier and Penin SA.

Mr. R. Whitelaw has been appointed company secretary of LITHGOWS (HOLDINGS) in succession to Mr. Werner Wels, who becomes full-time executive director in charge of group

Mr. Gordon A. Cumming has joined GRINDLAY BRANDTS INSURANCE BROKERS as a director and has become deputy Thairman of Its subsidiary Grindlay Brandts Life and Pensions.

ensions. Mr. Peter Strutt is to relinquish the managing director-timp of TOLLEMACHE AND COBBOLD BREWERIES from January 1, 1981, but will remain chairman of that concern and a director of Ellerman Lines. Mr. Graeme Falconer, at present production and distribution director at Tolly Cobbold, will

"a a" . " l'miles"

4:

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tone

company. Mr. Maurice Lloyd, the head brewer, is to succeed Mr. Falconer as production and distribution director and will join the Board of Tolly Cobbold.

Mrs. Janet P. Chamberlain has been appointed a director of CHARTERHOUSE JAPHET EXPORT FINANCE and



Mrs. Janet Chamberlain

DISTRIBUTOR FINANCE. Mrs. Chamberlain joined Charter-house Japhet Export Finance in 1976 as assistant manager.

Mr. Peter Goode has been made marketing director-Europe, responsible for HOOVER sales in the UK, Continental Europe and Scandinavia. Mr. Richard Tatschuer has been appointed

director of operations. He is also responsible for the operations in Australia and South Africa.

Mr. R. Ross, previously marketing director of Brush Power Equipment, has been R. Ross, appointed managing director of and director, administration, on the Board of South Wales Electric Zambia. Mr. Ross succeeds Mr. J. Simnett. The responsibility for the supervision responsibility for the supervision of Hawker Siddeley Electric Zambia has been transferred from Hawker Siddeley International to Brook Crompton Parkinson Motors, at Huddersfield, and the Board of Hawker Siddeley Electric Zambia has been preparativated as has been reconstituted as follows: Mr. J. C. Mansfield, chairman; Mr. R. Ross, managing director; Mr. A. M. McGhie; Mr. W. L. Denness and Mr. C. Stacey.
Mr. R. D. Vaughan has joined
the Board of Crompton Instruments Inc. U.S. The parent
concern is HAWKER SIDDELEY.

Mr. Ron Bartlett has become senior director on the Board of AMEY ROADSTONE CORPORA-TION in succession to the late Mr. Bill Tokley. Mr. Eric Hope has been appointed a director. Mr. Bartlett joined the group in 1940 and has been on the main ARC Board since 1970. Mr. Hope came to ARC last year and is chairman and managing director of AR Construction.

Mr. Peter Dorling has been appointed assistant managing director of RANSOMES SIMS AND JEFFERIES. He joined the company as chief buyer in 1958.

Mr. Barrie Heads and Joyce Wooller have been appointed to

executive director of Granada Television in 1967 and managing director of Granada Television International in 1968. Joyce Wooller is director of programme

Mr. Michael B. Edwards has joined the COMPAIR GROUP as director of organisation develop-

Mr. H. M. Scopes has been appointed to the board of ICI petrochemicals division—as raw petrochemicals division—as raw materials and purchasing direc-

Mr. Graham Willett, on reach-Mr. Graham Willett, on reaching his retirement age, will be leaving his present position of general manager and aviation underwriter of the ORION INSURANCE GROUP from September 5. Mr. Stuart Peel, at present deputy aviation underwriter to Mr. Willett, has been appointed to succeed him as aviation underwriter,

Mr. Kurt W. Ziegler, based in WELLS FARGO BANK'S Frankfurt Germany representative office, has been elected a vice president of the bank.

Mr. Raymond J. Davies has joined the board of ABBEY LIMITED. He is managing director of Abbey Homesteads (Group), the parent company for UK operations.

Mr. Joho D. Milne, general manager—corporate banking, of ANZ BANKING GROUP, has been appointed a director of the

Mr. D. C. Lindsay, group managing director of WHAT-LINGS, has been appointed chairman. Mr. Ian Robertson continues as deputy chairman. Mr. James Robertson has retired as chairman of the company and its subsidiaries but will con-tinue as a non-executive director.

The BANK OF ENGLAND states that Mr. Eric Davey, at present second auditor, will become agent at the Newcastle Branch from May 21 to succeed Mr. H. J. Mason, who is retiring.

Mr. Robert Butler has retired as executive chairman of EUTECTIC COMPANY and remains chairman of the board. Mr. David D. Searle is managing

Mr. G. C. Castle, formerly manager, organisation planning, Ford of Europe, has been



appointed controller of personnel at MIDLAND BANK INTER-NATIONAL.

Mr. Michael J. Bancroft has been appointed to the board of MEARS CONTRACTORS as deputy managing director. Mr. Bancroft has been a director of Amey Roadstone Construction

Captain John Treehman has succeeded Mr. Ron Smith as chairman of the CORPORATE RESPONSIBILTY CENTRE and Mr. Peter Walker has become development director. Captain Trechman recently retired from IBM United Kingdom,

Group Results - for the period ended 29th December 1979

¥.**			19 £*0		197 £'00	_
			Sales	Profit	Sales	Profit
Stockho	lders	ing the second	6,387	176	5,668	83
Steel ro		·	4,997	81	4,227	138
Enginee		•	2,148	91	1,793	82
Estates			468	103	335	29
.: Housing			· -	<u>; —</u>	60	(20)
			14,000	451	12.083	312
Intra Gr	oup sales		2,092		1,719	
	l sales.	en jaron kanada araba Penganan Araba	11,908		10,364	
	ated interest			47		39
Profit b	efore tax	-		404		273
. Profit a	fter tax			348		280
Extraor	dinary profit .			. 39		12
Net pro	fit :		:	387		292
	d surplus			303		242
Earning	s per sharè	-		16.5p		12.4p
Ordinar	y dividend per :	share — Interim	L	1.0p	- i-: i	0.683p
فري سومي :		∵ ≃Final •		. 2.5p		1,25p

registered on 23rd May, 1980.

Extracts from Chairman's Statement

Stockholding - The substantial rise in profit has been achieved not only from in sales but also from improvement made in the organisational structure of our depots and the resultant reduction in overhead costs.

Steel rolling - Trading has remained difficult and whilst turnover has inc narrower margins together with the rise in costs of electric power, gas and oil have kept

Engineering - Demand for this division's products and metal finishing facilities increased considerably during the period under review. Turnover and profit would have risen to higher levels had there been no interruption due to the 10-week national engineering

Estates—Income from further lettings of refurbished buildings surplus to our requirements has contributed to the overall increase in profit. The first five nursery-type units have proved very acceptable and the company is considering the erection of further units. Prospects—The year started amidst industrial strife and our operations have had to be

conducted in a trading environment which in many areas remains difficult. By making our opportunities wherever possible we have so far traded profitably in all divisions with the exception of steel rolling. The mill was closed for five weeks from 27th January when the Iron & Steel Trades Confederation operatives went on strike and trading losses have been incuffed in this division.

Our programme of capital expenditure continues and whilst Llook forward with confidence to the future the speed at which this can be implemented must be dependent on the industrial climate during the 1980's. ...

THE LILLESHALL COMPANY LIMITED

ST. GEORGE'S, TELFORD, SHROPSHIRE TF2 9BQ

The annual general meeting of stockholders will be held on Tuesday 13 May, 1980 at 10.00 a.m. at the RAI Congress Center, Europaplein, Facilities for simultaneous translation into English

2 Report of the board of management for the

ancial vear 1979 ----3 Approval of the financial statements: consideration of the dividend proposal
4 Proposal to amend the articles of association 5 Appointment of members of the supervisory

6 Annual decision concerning issues as required by the London Stock Exchange* 7 Any other business

annually recurring agenda item in re compliance with the requirements of the London Stock Exchange concerning the listing of Akzo shares on that stock exchange.

-The agenda, the signed financial statements, a copy of the proposal for amendment of the articles of association, as well as a list of personal data on the nominees for the supervisory council are available for inspection by stockholders at the Company's office, 82 Lissellan.

There and through the undermentioned banks stockholders may obtain free copies of the aforesaid documents, as well as a free copy of

Stockholders who wish to attend the meeting should deposit their shares in order to establish their identity not later than Wednesday 7 May, 1980 at the Company's office, Arnhem, 82 Ussellaan, or with one of the following banks:

in the Netherlands with Amsterdam Rotterdam Bank N.V., Algemene Bank Nederland N.V., Bank Mees & Hope NV, Nederlandse Credielbank N.V., Nederlandsche Middenstandsbank N.V. and Pierson, Heldring & Pierson N.V. in Amsterdam, Rotterdam, The Hague and Amhem, insofar as said banks have branches in these cities, and with Cooperatieve Centrale Raiffeisen-Boerenleenbank B.A. at Utrecht; in the Federal Republic of Germany and

in West Berlin with the Deutsche Bank AG, Deutsche Bank Berlin AG, Bank für Handel und Industrie AG, Berliner Handels- und Frankfurter Bank, Dresdner Bank AG and Sal. Oppenheim Jr. & Cie in Frankfurt a.M., West Berlin, Düsseldorf, Cologne, Hamburg and Wuppertal;

in Belgium with Generale Bankmaatschappij , Bank van Panjs en de Nederlanden België N.V. and Kredietbank N.V. in Brussels and

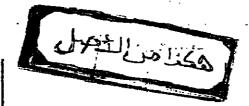
in Luxembourg with Banque Générale du Luxembourg S.A. in Luxembourg: in the United Kingdom with Barclays Bank ited, 54 Lombard Street, London EC3P 3AH; in France with Lazard Frères & Cie and

Banque Nationale de Paris in Paris; in Austria with Creditanstalt-Bank in Switzerland with Swiss Credit Bank, iss Bank Corporation, Union Bank of Switzer land in Zurich and Basel and their branches, and also with Pictet & Cie in Geneva; in the United States of America with The

Chase Manhattan Bank N.A. in New York, N.Y. The supervisory council

Amhem, 22 April 1980





All these Notes have been sold. This announcement appears as a matter of record only.

SEK

Aktiebolaget Svensk Exportkredit (Swedish Export Credit Corporation)

£20,000,000

15th per cent. Sterling/U.S. Dollar Option Notes 1985

ISSUE PRICE 100 PER CENT.

Interest payable annually on 15th April

Hambros Bank Limited

Algemene Bank Nederland N.V. **IBJ International Limited**

Chase Manhattan Limited **Manufacturers Hanover Limited**

Société Générale S. G. Warburg & Co. Ltd. Westdeutsche Landesbank Girozentrale PKhanken Investments Limited Skandinaviska Enskilda Banken Svenska Handelsbanken

Amsterdam-Rotterdam Bank N.V. Aktoyd & Smithers A.E. Ames & Co. Bache Halsey Stuart Shields Banca Commerciale Italiana Banca del Gottardo Bank of America International Bank Julius Baer International Bank Mees & Hope NV Banque Bruxelles Lambert S.A. Bank Gutzwiller, Kurz, Bungener Banque Française du Commerce Extérieur Banque de l'Indochine et de Suez Banque Internationale à Luxembourg S.A. Banque de Paris et des Pays-Bas (Suisse) S.A. Baring Brothers & Co., Berliner Handels- und Frankfurter Bank Chemical Bank International Group Christiania Bank og Kreditkasse County Bank Creditanstalt-Bankverein Commerzhank Crédit Lyonnais Daiwa Europe N.V. Den norske Creditbank Deutsche Bank Dresdner Bank European Banking Company Gefina International Hambro Pacific Hill Samuel & Co. Kuhn Loeb Lehman Brothers Kidder, Peabody International Kleinwort, Benson Kuwait Foreign Trading, Contracting & Investment Co. (S.A.K.) Knwait International Investment Co. (S.A.K.) Merrill Lynch International & Co. Marine Midland Knwait Investment Company (S.A.K.) Lloyds Bank International Mitsubishi Bank (Europe) S.A. Mitsni Finance Europe Samuel Montagu & Co. Morgan Grenfell & Co. National Bank of Abu Dhabi Nesbitt, Thomson Morgan Guaranty The Nikko Securities Co., (Europe) Ltd. Orion Bank Nomera Europe N.V. N. M. Rothschild & Sons Limited Rowe & Pitman Salomon Brothers International Rothschild Bank AG Smith Barney, Harris Upham & Co. Scandinavian Bank J. Henry Schroder Wagg & Co. Société Générale de Banque S.A. Strauss, Turnbull & Co. Swiss Bank Corporation (Overseas) J. Vontobel & Co. April, 1980



Choosing electricity makes sound business sense

Derek Melven, managing director of Aylesburybased TRW-United-Carr, doesn't take decisions without thoroughly analysing the relevant facts and alternatives.

So before deciding on the right energy source for a new plant installation, Derek took advice from his local Electricity Board's Industrial Sales Engineer. The company which manufactures fastening devices for the automotive industry, now uses electricity in four key areas.

A compressed air drying unit keeps pneumatic systems going, electric heat treatment furnaces have increased output by half, automatic electroplating gives closer quality control and electric

fork-lift trucks have greatly improved working conditions.

"Working experience is proving that we made the right choice. Increased output, better quality control and improvements in working environment are all coming out very close to

forecast", he says. If you'd like to improve your company's operating efficiency, talk to an ISE at your local Electricity Board. His advice and help is free.

GENERAL MINING GROUP

THE GRIQUALAND EXPLORATION AND FINANCE COMPANY LIMITED

(Incorporated in the Republic of South Africa)

Issued Capital-R597,500 in 11,950,000 shares of 5 cents each REPORT FOR THE QUARTER ENDED 31 MARCH, 1980 UNAUDITED CONSOLIDATED RESULTS OF THE GROUP

	Quarter ended 31.3.80	Quarter ended 31.12.79	Previous financial year to date
Operating results	983	1,268	1:147
Development—metres	100.000	111,000	90,000
Ore milled—tons	13.115	13.087	12.972
Fibre produced—tous	13.1	11.8	14.4
Percentage fibre recovered	R38.85	R37.09	R36.40
Cost per ton ore milled	R531.6	R521.1	R549.2
Revenue per ton fibre	R296.3	R314.6	R252.6
Production costs per ton fibre		R114.4	R109.1
Selling costs per ton fibre	R112.8		
Financial results	R'000	R'000	R'000
Operating profit	1,348	1,836	2,089
Profit after tax from non- mining subsidiaries	20	52	45
•	1,368	1.888	2.134
Less: Interest and sundries	198	132	171
Profit before taxation	1.170	1,756	1,963
Provision for taxation	236	378	542
Net Profit after taxation	934	1,378	1,421
Capital expenditure	115	166	217
Prospecting expenditure	82	29	94
Notes .			
1 Consolidated results are mi	ven as in	formation	relating

Consolidated results are given, as information relating to the company only could be misleading.

Financial results are based on actual fibre shipments which vary from month to month and do not necessarily the year. Because of a distinct seasonal pattern in asbestos sales, results for the quarter under review should, preferably, be compared with those of the corresponding quarter of the previous financial year.

Operating results relate to the activities of group mines only while financial results reflect sales of fibre from group mines as well as sales of other producers. On behalf of the Board

L. K. JOOSTE Directors W. T. P. MOSTERT

London Office: 95 Gresham Street, London EC2V 7EN.

Registered Office: 6 Hollard Street. South Africa. Johannesburg. 22nd April 1980

50,000 INVEST IN BETTER TOMORROWS!

50.000 people in the United Kingdom suffer from progressively paralysing MULTIPLE SCLEROSIS — the cause and cure of which are still unknown - HELP US BRING THEM RELIEF

We need your donation to enable us to continue our work for the CARE and WELFARE OF MULTIPLE SCLEROSIS sufferers and to continue our commitment to find the cause and cure of MULTIPLE SCLEROSIS through MEDICAL RESEARCH.



Please help — Send a donation today to: The Multiple Scierosis Society of G.B. and N.L. ⁹⁹6 Munster Road Fulham, London SW6 6BE

Arms and the mandarins: the British way of selling defence equipment abroad

BY ROBERT COTTRELL

THE UPS AND DOWNS OF THE BUSINESS

International Military Services was incorporated in 1967 as Millbank Technical Services, a subsidiary of the Crown Agents. Millbank was to act as a principal in overseas contracts, by no means all defence related. The Ministry of Defence found MTS's skills in assembling multi-disciplinary projects made it an attractive vehicle for the Iranian military contracts which began to be placed in the early 1970s. The nature of Millbank's business was such that, in 1977 control passed to the MoD, though the Crown Agents continued to hold the shares, and in June 1978 it adopted its rather more descriptive current name. The MoD took over the shares in January 1979, at a time when it was clear that Iranian business,

STREAMLINED

Government sales structure for defence exports is being hammered out in Whitehall, At

the heart of the debate is the future role of International

Military Services (IMS), a

limited company whose shares

are wholly-owned by the

IMS is one of the lesser-known elements of Her Majesty's

Government. It receives, for

instance, no mention in this

month's statement on the

Defence Estimates. It breaks

cover in Sir Leo Pliatzky's

January report on non-departmental government bodies quangos", but with its £244m

turnover 'in 1978 curiously

classified as "gross expenditure" alongside the nugatory

administrative expenses of run-

ning military museums. IMS is,

however, well enough known to

the dozen or so foreign govern-ments which have filled its

current order book with some

contracts worth around

Past projects undertaken by

IMS have included a military industrial complex at Isfahan,

Iran, geared to the production of

ammunition and spares for the

Chieftan-type tanks ordered by

Iran. Informed estimates put

the projetced cost of Isfahan,

undertaken jointly with John Laing and George Wimpey, at some £770m, but work ceased

with the Iranian revolution.

The company does not discuss current orders: but these are

understood to include a major

military support equipment deal with Saudi Arabia.

IMS is a strange beast, a

governmental griffin combining

two distinct persona. It is a

limited company, bound by the

Companies Acts. owned by

central government. It finances

and accounts on commercial

principles. but substitutes

government guarantee for adequate capitalisation. It is

bound by government policy

guidelines, but has the obliga-

tions of commercial and pro-

prietary confidence. It acts with

the authority of the Government,

but has the commercial attitudes

and flexibility of a small, aggres-

IMS has grown during the last

decade from a £4m contracting company within the Crown Agents to a £250m annual turn-

over defence lead contractor for

MOD. Its special skills are in

packages comprising

ssembling complex defence

sive company.

Strange beast

Ministry of Defence (MOD).

which made up 90 per cent of IMS's markets, was at an end. It was not until January this year that IMS could get a cuear enough picture of its financial state to file accounts for 1978, into which were taken all matters contingent on the Iranian revolution. The effect was a £12m loss roughly equal to 1977's pretax profit. Reserves slumped from £15.7m to £2.2m, though the company retained liquidity throughout the crisis. The 750 expatriate employees were successfully evacuated from Iran, stripping IMS down to 150 staff, now rising towards

Within a year the company had built up its business in new markets, and is likely to show a profit of some £6m on a similar £240m-£250m turnover when 1979 accounts are

supply, civil engineering, personnel training, insurance, and after-sales service.

Minister of State at MOD, said the past, British arms sales own agents. "did lose out to the French • Royal because we took a more moral point of view . . I hope we mentary question last February, Mr. Francis Pym, the Defence Secretary, told Mr. Jack Straw, MP, that "an examination of alternative arrangements for the organisation of some defence sales work is in hand with a

mercial approach. The formulation of a more commercial structure for defence sales would involve redefining the relationships between three parties all controlled by the MOD:

activity from the defence votes

and of developing a more com-

• The Defence Sales Organisation (DSO) comprises civil servants within the MOD, engaged in high-level sales negotiations; sales and supply; and associated contractual and financial supervision. tIs total sales are probably in the region of £200m a year.

elements as weapons and spares

International Military Services may be seen to overlap with DSO in certain sales areas. Its turnover will probably be There are commercial winds around £250m-£300m this year, blowing through the MOD, and and it derives much of its work IMS looks well placed to benefit from sales openings made and from them. Lord Strathcona, then allotted to it by DSO. often with an eye to its turnkey na recent interview that, in skills. It has a handful of its

 Royal Ordnance Factories (ROFs) are weapons manufacturers, whose promary customer give the French more of a run is the British Army. Turnover for their money." In a Parlia- in 1979 was £284m). Almost all export output goes through DSO, which acts as middleman between ROFs and IMS. If an enlarged role for IMS's

commercial expertise accepted, then it might logically be expected to assume from view to removing part of the DSO the bulk of the latter's sales supply work, leaving DSO as an essentially high-level government-to-government negotiating force (manned "king-talkers," as the salesmen are called) with some marginal sales supply functions. related be to The second re-orientation would formalise IMS as the ROFs' sole export outlet, with appropriate commercial relations between the two bodies. The prime function of DSO which might be integrated into

IMS are those relating to the

sales of new ROFs' peduction.

served, the defence vote effectivly funds much arms exporting. ROFs are "paid at the gate" by DSO for their products out of the defence vote, while John, is DSO waits an average of six months to be paid in turn by its customer, ROFs have a trad-ing fund to cushion cashflow, but would probably require per- of opportunities and develophaps £100m to £150m to move working capital over to the requirements of potentially large and irregular export orders, with associated specula- than through central governtive stocking. IMS in turn would probably need some £30m to finance its expanded role as a

committed to trimming the IMS of 90 per cent of its undiminished demand Civil Service and the resurgence markets and ownership was recenession years.

Chieftan tank: there were large orders from Iran

mercial operations and be in

effect profit-motivated presents

major contradictions, and per-

The question now, says Sir

maximise the role we play in

the national interest. It is really

a question of whether one can

maximise and exploit a number.

ments which in my opinion can

best be done through a more commercially structured and

motivated organisation like IMS

That such a question should

apparently have been under

"whether we can

Opportunities

haps not desirable ones."

military surplus stores within ing work out of DSO and into these last two might be marketing efforts under MOD transferred in time. broad guidelines, ought to be

The assumption of DSO func- more effective than civil sertions would of necessity bring rants can ever be, by virtue of ims into a direct relationship their experience and training. with ROFs. But one precondi- and by virtue of the limitations tion for fully commercialising which must be imposed on civil trading between the two parties which might be uncomfortable for a cash-conscious government would be the one-off capital injections required.

At present, as Mr. Pym ob-

bilities for the sales of surplus of commercial criteria, there transferred from the Crown warships, naval supplies, are clear attractions in switch Agents to MOD); says much for the sensitive nature of a packproduct licensing, and army John Cuckney, "ought to be able jobs and money."

related technical advice, though to be more commercial in its The defence business, unlike say the building of shoools or

hospitals, is a highly sensitive area, in which a company like

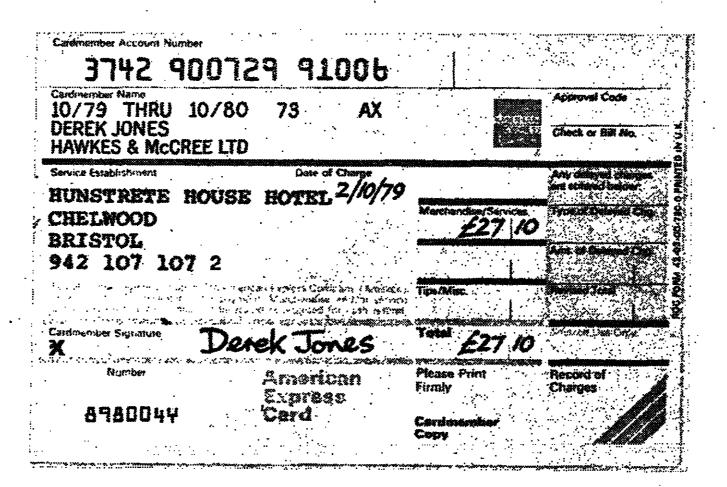
IMS can offer quife specific
advantages. It can serve to
insulate the British Covernment from periodic public concern operations. One could well say at one remove from the market mercial operations. prietary confidences held by IMS relating to its contracts are subject of company law, as are its legal obligations to third

> IMS has _always - operated within Government guidelines, accountable to the MOD, its owner. - Any "devolution." of defence sales which might take place is therefore one of operations and not responsibilities. Nonetheless IMS's commercial momentum-jobs and profits—may sometimes have to be set against political considerations.

Defence-related British exports will be worth around £1.2bn this year. Defence industries provide around 1m jobs rincipal.

debate since last spring (when and arms sales are one of the During an administration the Iranian revolution deprived few areas which can expects

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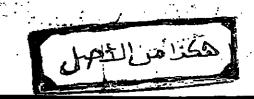
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European Machine Tools

Machine tools are at the core of most manufacturing industry and if recession becomes a serious fact of economic life, then the outlook could be bleak. This survey weighs the balance of pros and cons.

future

By Hazel Duffy Industrial Correspondent

MACHINE TOOLS are a vital element in the development and advancement of industrial processes, which gives them in some ways a far greater significance than would be suggested by value and volume of output alone. Almost every product has, at some stage of its manufac-true, been shaped or cut by a machine tool.

The variety of jobs performed by machine tools has been matched by the spread of types of machine tool, and this has ben an important influence in shaping the structure of the industry. There are, of course, standard machine tools which can be turned out by the thousand, but at the other end of the scale is the highly sophis-ticated machine which is designed for a particular customer and manufactured in close co-operation with him.

ever, which lends itself to mass demand, and many companies

production techniques, even for are quoting 18-months' delivery sequently, many of its mem-ber companies throughout the world are relatively small, and have retained a degree of flexihility which has been proved very necessary during periods of highly cyclical demand. The trouble is that smaller companies cannot always find the resources to spend sufficient money on developing their products. In most developed countries, the industry has gone through severe bouts of rationalisation over the past 20 years as it has found itself having to adapt, often painfully, to the requirements of its cus-

The industry is currently in a state of extreme uncertainty about future demand. As the Western world teeters on the brink of a recession whose length and severity nobody can predict, there is understandable concern about levels of capital spending and the associated need for machin tools. Most countries have experienced surprisingly buoyant demand over the past couple of years, but few machine tool manufacturers could say that they look forward to the first years of the 1980s with real confidence.

Unable

The U.S. market has been particularly good, partly as a result of increased industrial activity generally and more specifically thanks to the retooling programmes of the motor and aerospace industries. American machine tool manufacturers have been unable to This is not an industry, how-meet this huge expansion in

standard machine tooks. Con- periods to prospective custo mers. The industry itself argues that this is because it has shrunk in the absence of Governspending-the Federal measures expected to come into force shortly have come far too late to preserve large parts of the industry, says its trade associa-

> American industry has tradi-tionally tended to by U.S. made machine tools in the past, par-ticularly for their sophisticated requirements. It has come as something of a shock, therefore, for it to find that it has been necessary to go overseas more and more, and that it can source advanced technology machine tools from outside the U.S. as well as within. Japan is the country which has benefited most from this expansion in the U.S., but many European companies have also done well.

Machine tools are a product

which has tended to lead to a fairly high degree of interspecialisation. Britain has traditionally exported a large number of grinding machines, the German industry a number of sophisticated machine tool categories, and the Italians similarly have built up pockets of success. At the same time exports have been an important element in offsetting demand troughs in the homemarket, and the tamount of international trade in this industry is considerable. In 1978 world machine tool production totalled \$18.6bn, and world trade in machine tools comprised \$8bn of exports and \$6.2bn of

There are several factors which could alter the current

WORLD MACHINE TOOL PRODUCTION AND TRADE (estimated 1979 figures \$m)

	F145-4000		
West Germany	4,100	2,460	541
Ü.S.	3,890	. 660	- 1,060
Soviet Union	2,892	350	800
Japan	2,698	1,114	155
Italy	1,386	699	265
UK	1,106	468	575
France	918	480	352
East Germany	806	662	244
Switzerland	797	678	140
Poland	685	191	518

Source: American Machinist, February, 1980

pattern of international trade. tries, including the USSR, have been very good markets for These include the following. European machine tool com-

First is the emergence of Japan as a big exporter of machine tools, particularly of the numerically controlled type, which is a growth area worldwide. Japan has already made big inroads into the U.S. and is starting to do so in Europe. In some products there is real concern that home-based manufactures can ever make much of an impact.

Although Japanese industry, and the car industry in particular, have large spending programmes for new capital equipment, it is clear that machine tool capacity will produce a large surplus over home demand and that Japan will continue to exercise a considerable influence on the industry worldwide.

Second, the Comecon coun- Europe and the USSR, but all are not making specialised types

panies in recent years. Orders

have come frequently on the

back of big projects carried out

by Western companies, such as

the motor-car factories built or

expanded with the help of com-

panies like Fiat, Peugot-Citroen,

etc., and the Massey Ferguson tractor factories in Poland

which brought big orders to

the U.K. machine tool industry.

The uncertainty over U.S. policy towards export of these products to the Soviet Union,

and the expected slowdown in

capital expansion projects in

countries generally,

threaten this valuable

Emergence

to intrdue on markets tradi- the National Exhibition Centre, tionally supplied which already have sizeable examples of automated machin-machine tool industries include ing processes whereby these machine tool industries include ing processes whereby these India and Spain, while others machines are automatically which intend expanding into linked up to carry out whole international status include Korea, Taiwan, and probably China. For the moment, the

ducers have also done well.

emergence

equipping of these industries with machine tools is attractive to the developed countries, but they are aware that in time they will have helped to build up

These factors may not all be adverse as far as the Western countries are concerned. Japan is anxious to set up manufac-turing facilities in Europe, as it has already done in the U.S. If this follows the pattern set the American companies which have set up in Europe, and particularly in Britain, it may well make a welcome contribution to the health of the industry as a whole.

The growing acceptance of computer-controlled machine tools, however, poses some ing to give impartial advice on threat to the industry generally. expensive purchases. The fact that these machines do the job-of perhaps four ordin-ary machines immediately means that demand is reduced in terms of numbers. Furthermore, the pricing of NC machines is becoming increasingly competitive so that the value will in many cases be less than it would cost to re-equip manually - controlled with

trade. West Germany is the machines. biggest exporter to Eastern Nevertheless, companies which

the other major European pro- of machine tools cannot ignore the challenge that has been of posed by NC. Many of the machine tool industries in machine tools on show at Mach developing countries threatens 80 (which opened yesterday at by the Birmingham) will be of this Countries variety, and there will also be

assembly tasks. The advent of the microprocessor is having a very big

impact on this traditionally somewhat conservative industry It is certain that the technical achievements to date will be overtaken on a rapid scale in the future, making it imperative that the industry finds the resources to go along with the developments being made by electronics companies.

To some customers, the array of computer controlled machine tools is bewildering. There has almost certainly been a tendency for industry to buy machines which are more sophisticated than needed, or simply cannot be justified by the amount of work that is needed of them. It would not be surprising to find a growing business in consultancies offer-

Programmes

tool industry, as in most other there will be growing demand branches of engineering, lies for developments in the area of very largely with the rate of inspection systems, robotics, and industrial growth worldwide the movement towards auto-The spending programmes of mated system generally. It the motor industry is forecast would be surprising if there was to continue in the U.S., Europe not considerable rationalisation and Japan for two or three and reorganisation throughout more years yet, although there the decade in order to meet must be some doubts as to the these challenges.

	ì
World trade II	
UK industry II	_
Vehicle manufacturers III	_
Technology III	_
W. Germany IV	_
U.SIV	_
France V	
Italy V	_
Switzerland V	-

ability of companies to fund this retooling if car sales go into decline as they have in the U.S.

Similarly, the aerospace industry can be expected to continue retooling for some while in the light of the new genera-tion which is planned. Elsewhere, capital spending will depend very much on the length and severity of the recession.

As far as products are con cerned, the shift to standard machine tools being produced in low-cost countries must continue. This will make all the more important the resourcefulness of the industry to come along with new developments. Some forecasters say that 50 per cent of the value of machine tools will be NC and computer-The future of the machine controlled by the mid-1980s, and

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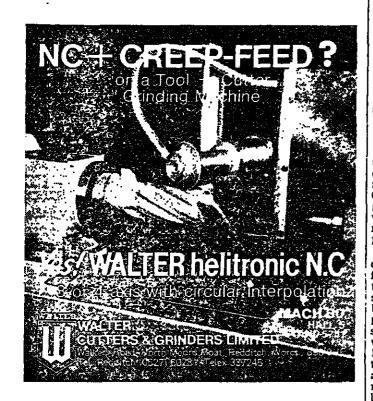
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U.S. demand dominates world trade

EUROPEAN MACHINE TOOLS II

U.S. industry's re-equipment programme. It was unusual for hese two companies to look outside the U.S. for their machine tool requirements, but the domestic industry was too full of orders to meet the delivery

Milacron. argest U.S. machine tool manufacturer, has been reporting spectacular increases in its order intake, mainly resulting from the huge capital spending pro-grammes now under way in the American motor and aerospace industries. At the end of the as the largest importer of third quarter of 1979 this commachine tools. third quarter of 1979 this company's order backlog reached \$665m, almost 50 per cent higher than at the same time in the previous year.

International trade in machine lools over the past two years has been dominated by the enormous demands placed on the world industry by the U.S. Arrine re-equipment programmes have brought a surge of new business to the arrest builds. aircraft builders and their sup-pliers, with the result that they lave been scouring the world for materials (such as titanium) and for machine tools and other capital equipment to increase their capacity. In the motor industry the headlong switch to small cars, imposed partly by high fuel prices and partly by Federal regulations, has had similar consequences.

Dramatic

The effect on the U.S. machine has been dramatic. In 1978, for example, motor industry orders for Cincinatti Milacron's precision grinders rose by 61 per cent, while orders from the aircroft makers for computer-controlled profilers rose by 160 per cent.

developments have reated great opportunities for foreign suppliers of machine lools, especially but not exclusively the Japanese. As Table I indicates, the share of imports in U.S. machine tool consumption had been edging up-wards in the 1960s and the early 1970s, but it is only recently that the proportion has climbed bove 20 per cent. The most remarkable change took place between 1977 and 1978, when

EARLIER this year Komatsu of imports of machine tools rose local machine tool companies.

Japan received inquiries from from \$482m to \$832m and the Another major source of bu General Motors and Ford for the U.S. became a net importer of supply of a large number of machine tools for the first time, presses needed as part of the Although West Germany had

Although West Germany had traditionally been the major supplier of imported machine tools to the U.S. and is certainly sharing in the re-equipment boom now under-way, it was overtaken in 1977 by Japan. In 1978 Japan supplied machine tools to the value of \$221m, against West Germany's \$155m. The next largest supplier was the UK with \$75m. In 1979 the U.S. was again a large net importer of machine tools. According to American Machinist figures, the U.S. last year overtook the Soviet Union

Protectionist

The impact of Japan on the U.S. machine tool market, though less obvious to the general public than in cars or TV sets, has reached the point where fears of a protectionist response have begun to influence commercial decisions. Several panies have decided to set up manufacturing operations in the U.S. Yamazaki was the first to take the plunge and other companies, including Ikegai, Hitachi Seiki and Makino Milling, are reported to be planning similar moves. There are, of course, marketing as well as a political advantages in being sited near to the major customers; some components and ancillary equip-ment can be bought more cheaply than in Japan.

The rise of Japan as a major force in world markets has been the major development in world machine tool industry over the past decade. As Table II shows, Japan's share of world machine tool exports has been advancing steadily over the past decade until it is now the second largest exporter after West Germany, ahead of Switzerland, Italy and the U.S.

In the past few years North America has accounted for about a third of Japan's machine tool exports, the Far East for about 22 per cent and the Comecon countries for about 15 per cent. Partly to reduce their dependence on the U.S., Japanese companies have seeking to strengthen their position in Western Europe, sometimes in association with

Another major source of busi- market and it is extremely diffiness in recent years has been cult for outsiders to dislodge them. Soviet Union is a major producer of machine tools, it is also a very large importer. Non-machine tools from a single Comecon countries, especially source. the West Germans and Japanes

have supplied large quantities of sophisticated machine tools for the motor industry and other consumers. In 1978, for example, the Soviet Union was easily the largest outlet for West German metal cutting machine tools, taking equipment to the value of \$212m; the next largest markets were the U.S. (\$96.4m) and the UK The Soviet Union was the largest single market for Italian

machine tools in that year, while France's biggest cus-tomers were Romania and the Soviet Union. The share of the U.S. industry in the Comecon market has tended to slip in recent years, partly because of political obstacles; the latest flare-up over Afghanistan will tend to strengthen this trend. The world machine tool in-dustry is characterised by a high degree of international specialisation. This is likely to be accentuated as developing countries like India become more significant exporters of standard machine tools; even China is beginning to participate actively in international trade. Manufacturers in the respond to this competition by making a bigger commitment to

cluding numerical control and computer control. Yet a striking feature of this industry has been the ability of medium-sized and small companies, by specialising in a particular type of machine tool, to maintain a reputation for tech-nical excellence. For the more prepared to go to the supplier advanced machine tools there who has the best product are usually five or six (somefewer) manufacturers which are known to be the

leaders in that particular great advantages in being able to offer a large portfolio of

Thus the Italian industry, which has a particularly good record in exports, consists largely of smaller companies. which is overwhelmingly the largest exporter of machine tools, there is no strong move towards the creation of larger companies. In the U.S. there changes in the last few years, apparently prompted by the plier of high-production equip-ment for the motor industry, and Kearney and Trecker, although this is being contested by the antitrust authorities. Last year another leading U.S. machine tool company, Warner and Swasey, was taken over by Bendix, a diversified engineer-

ing group with substantial machine tool interests.

Located

Partly because of the structure of the industry, the trend towards multinational investment, in the sense of the leading the major markets, is less marked than in concentrated farm machinery. It is true that some of the U.S. companies have manufacturing subsidiarles or associates in Western Europe and there are a few cases of investment in the reverse direction-but for sophisticated and wherever he may be located.

Geoffrey Owen

TABLE 1: MACHINE TOOL IMPORTS AS PERCENTAGE OF DOMESTIC CONSUMPTION

	U.S.	Japan	West Germany	UK	France
1960	5.4	31.1	- 19.6	21.4	na
1965	4.2	17.7	17.8	25.7	па
1970	9.1	13.6	23.8	28.7	na
1975	13.8	14.2	27.8	37.7	48.0
1976	14.9	9.3	27.7	40.8	na
1977	15.6	8.0	30.0	45.0	47.0
1978	21.4	8.2	29.9	47.0	47.0

Source: NMTBA and national statistics.

TABLE II: SHARES OF WORLD MACHINE TOOL EXPORTS

10.3

8.2

7.2

Source: U.S. Commerce Department. The figures refer to share of total exports from 14 major producing countries outside the

8.2 10.3 12.5

10.2

12.6



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THE UK machine tool industry enters the 1980s beset by a THE INDUSTRY'S PERFORMANCE number of uncertainties, despite the confidence with NEW DADERS

which the Mach 80 exhibition is being launched. A recent report commissioned by the Machine Tools Trades Association, the industry's representative body, forecast a probable decline in orders of around 2 per cent over the next four Furthermore, the forecast, from the Henley Centre, expects the trend of export by the British machine tool industry to continue declining, while imports will continue to take a growing share of the British market.

If this forecast sounds over-whelmingly gloomy, it must be said immediately that the industry has some very good companies which have the capability and resources to survive the changing demands being put on them. In fact the difficulties of the past five years have done much to stimulate the creation and re-organisation of groups of companies which have been strengthened as a

Into this category fall some of the largest manufacturers, including the machine tool interests of Tube Investments, John Brown (the Wickman group), Staveley and B. Elliott. The last has expanded through its acquisition of Newall, and more recently the Herbert. more recently, the Herbert-Churchill grinding interests. The perennial problem remains Alfred Herbert, which looks destined to re-group its stronger elements in order to concentrate on advanced technology, while disposing of its other

Capacity

The American-owned sector The American-owned sector of the industry is an important element. It includes Cincinnati Milacron, Cross, Warner and Swasey, Adcock-Shipley, Giddings and Lewis-Fraser, Landis Lund, Dean, Smith and Grace, which together probably account for around 30 per cent of UK output. In some cases of UK output. 'n some cases they have provided valuable extra capacity for their U.S. parent companies which have been unable to meet all the requirements arising from the motor and aerospace indostreis' re-tooling programmes in the U.S. Most of their production. however, is geared to the UK and other European markets. The British industry covers a wide range of standard and specialised machine tools. Some-

times these interests are represented by companies which are part of the same group. The 600 Group, for instance, the largest on the machine tool industry machine tool manufacturer in has done some valuable work the UK, includes, in Colchester in researching customer needs. Lateh, probably the world's and the inability of the indus-

smaller indepedent companies number of gaps in type, size also continue to meet the needs and technological sophistication of the industry's main customwere identified, as well as presents hoth for standard and specific from low-cost imports.

The major theme of Mach 80 is product development, a vital aspect of today's machine tool industry. The complexity of machining requirements has led. fer lines and hydraulic presses, for which there is a limited production capability in the UK.

Motor industry investment is a key determinant in machine tool demand. In the past couple of years the UK has benefited in particular from the Ford engine plant at Bridgend, while-BL has also been investing fairly heavily. But there is obvious concern about the future of the motor industry in the UK and the effect that this will have on the machine tool industry. At the same time, it is not always healthy for the latter to fall back on the argument that it cannot produce every type of machine tool requirement in this countr, particularly for the specialised needs of the motor industry. A recent example of a venture designed to overcome a product gap in the British industry was the co-operation agreement be-Hydraulic Engineering to build a large power press not previously available in the UK.
The National Economic De-

velopment Committee (NEDO). on the machine tool industry largest manufacturer of standard lathes. Other companies in the group, such as Hydro, make machine tools which come into the advanced technology bracket. A large number of months of 1979. An increasing of the first companies to make the months of 1979. An increasing of the first companies to make the machine tools being sold to the through the 1980s.

Kearney and Trecker Marwin increased as a result of the aid scheme, but many machine tool ducer of machining centres, as grinding machines a product well as other specialised to go it they are to survive machine tools being sold to the through the 1980s.

Hazel Duffy

number of gaps in type, size NC equipment, suffered from Similarly, the UK has been

slow to meet the rapidly grow-ing demand for numerically controlled (NC) jathes and machining centres. Imports of NC lathes accounted for probably to growing international special10 per cent of total imports of isation in their production. The machine tools last year, worth investment programmes of the about £25m. Japan was the motor industry in the UK, fror largest single supplier by instance, are believed to have volume, and is prominent in the oven an important factor in the production of smaller lathes jump in imports from Germany retailing for a little over high level of imports in 1979. A \$20,000. West Germany exand the U.S. was recorded, ported NC lathes to the value of mostly in items such as transfer lines and hydraulic message. nearly flim, slightly higher than Japan but the machines are much more expensive and therefore fewer in number. U.S. exports were around £2.7m.

In the past couple of years several companies in the UK have started manufacturing NC lathes and the total is now 16. They include Alfred Herhert. TT Churchill, Warner and Swasey, Webster and Bennet, and the 600 Group. The Japanese have built up a very strong position in this product, in the U.S. as well as in Europe, and if will be very difficult to dis-lodge them. The opportunities for UK companies must be more in the larger and more specialised NC lathe.

Weaker The situation with NC machin-

lng centres, another product which is enjoying considerable demand growth, is much weaker. for British companies. The NEDC calculates that only NEDC calculates that only of its competitors. A prime-50 per cent of UK demand is improvement is in the area of being met by home suppliers, productivity, where the and that imports have rised from less than film to film in the past two years in spite of

supply.

Rearney and Trecker Marwin

ahead of its time technologically. But the company now seems to But the company now seems to have settled down to a more stable existence under the ownership of Vickers. The Wickham group (part of John Brown) is another major manufacturer of NC turning machines and machining centres, while TI Matrix introduced a new machining centre recently, which was designed to offset the highly cyclical nature of its traditional grinding machines.

The growth in imports of machine tools is also being experienced in other developed countries which have well-established machine tool industries, notably in West Germany and the U.S. Many British comand the U.S. Many British com-panies have won orders recently from the U.S. and this is thought to be the main factor in the surprising resillence in the UK industry's exports in the latter half of 1979.

Investment in product

development has received some encouragement from the aid scheme devised by the last Government, although it looks as though the final take-up will be a sold hit lower than the 120 though the nnar take-up will be a good bit lower than the £30m set aside by the Department of Industry (DoI). Besides advances in NC technology, visitors to Hach 80 will also be visitors to meet ou win also be looking for developments in automated assembly and electro-discharge machinery, both areas which have received help from the DoL

As well as products, the UK industry also has to demonstrate that it can match the pricing. delivery dates and after service industry has a poor showing in relation to other sectors of the past two years in spite of eagineering. Investment in new growth in the UK industry's own machinery and buildings by the supply. increased as a result of the aid

EXPORTS

Vehicle manufacturers the biggest users THE MOTOR industry has for years from 1978. That is three ordered 530 machines and nine about many years been the biggest times what the U.S. space prouser of machine tools and assogramme cost. As a result, these in Britain. The purchase was bought four end of the purchase was proposed to the purchase was E TOOL MEDITE ciated equipment. The invest-ment programmes of the car CHESTIC COMPANY and truck makers have a twoway impact on the machine tool War Comment of industry—first, the assemblers themselves need new equipment, and secondly, their component suppliers often have to go out and buy new machine tools too.

Investment by the motor industry tended to be cyclical until the oil supply crisis gave its its first jolt in 1974 and 27 3 25 2. another last year.

American car was getting only
13 miles to the gallon of petrol.
The Federal authorities decided that situation inst bear and introduced legislation that will force the U.S. car makers CE WORLD a dash to get fuelefficient vehicles on the market. Care are being regulated by CAFE, or Corporate Average CAFE, or Corporate Average
Fuel Economy, which insists
that a manufacturer's entire
ment programme to revamp its fuel consumption ngute.

started in 1978 at 18 miles to
the U.S. gallon (there are 1.2
the U.S. gallon (there are 1.2
the U.S. gallon (there are 1.2)
the U.S. gallon (there are 1.2) fuel consumption figure. This gallon), moved to 19 mpg last fore 1985. year and is set at 20 mpg this year. It then goes up steeply in two miles-a-gallon jumps until 1983 the law requires American manufacturers to reach a fleet average of 27.5 mpg (33 miles to the Imperial

Confronted

The penalty for missing the target is \$5 for each tenth of a mile er \$50 a mile. Any manufacturer with a large fleet which misses the CAFE figure by very much is instantly confronted with fines totalling millions of

The American authorities did not want to take the risk that the lightweight cars the indus are having to do so to make try must produce to meet the sure their rivals do not leave CAFE regulations would be less them too far behind. safe than cars currently on the

So the manufacturers have with Nissan, the Datsun group also to meet stringent safety of Japan. In Britain BL has a So the manufacturers have laws. And on top of all that anti-pollution regulations are of more than £200m a year. It is gradually being fightened.
To cope with this task the American manufacturers are having to bring completely new

ranges of cars to market. They have to invest come what may. This year may prove a recession year—it started with 125,000 lay-offs in the U.S. motor industry-but the spending goes on.

vest around £50bn in the seven based suppliers. In 1979 BL to the £50,000 level.

companies which supply the motor industry with machine tools and other equipment have been working flat out for some

The international nature of the machine tool industry means that it is not only the U.S. machine tool industry which has benefited. The American car makers have been buying from companies in other parts of the world with well-developed automotive industries—mainly Western Europe and Japan.

It is not only the U.S. which has felt the cold blast of the energy crisis. In Europe too car manufacturers are working hard to get lighter, safer, less-pollut-ing and more fuel-efficient vehicles on the roads by the mid-1980s. They are investing heavily.

fleet must meet a fixed average cars, trucks and engines. That

General Motors, painfully aware that its record outside the U.S. cannot match Ford's, has already announced its expansion programme for Europe. GM will spend around \$13bn world-wide during the 1980s, which include a \$2bn European project to site an assembly plant and a components plant in Spain and an engine factory in Austria. On top of that five more component plants—three in Spain and one each in North-ern Ireland and Austria-will cost a further \$500m.

Such is the competitive nature of the motor industry that even those companies which cannot on the face of it afford to be investing heavily at the moment

In Italy Alfa Romeo is talking of expansion in association capital expenditure programme no coincidence that both companies are State-owned. Both the Italian and UK Governments hope to preserve and rebuild a vital industry. The State-owned companies

naturally enough prefer to buy machine tools from local manufacturers when that is possible. So BL can claim it has managed to "Buy British" machinout of ten of them were sourced in Britain. The purchase was worth £43m altogether.

The names on the list of RU's suppliers have a familar ring. There is Kearney and Trecker Marwin, Alfred Herbert, Wick-man and Frederick Pollard. Among the U.S.-owned companies which set up UK subsidiaries to service the American car makers when they moved to Britain the list in-cludes Ex-Cell-O, Cincinnati Cilacron and Cress Inter-

national.

It is politically prudent for any motor manufacturer receiving a large grant towards a project-either from the Government or local uthorities-to buy as much as possible from the country putting up the cash.

about half the equipment needed for the plant would be bought in Britain, which seems fair enough given that the UK Government is contributing an estimated £70m towards the £250m cost. In 1978, for example, Ford spent £90m on £45m were placed in the UK, pletion date for the project in £24m in the U.S. and £15m in question. West Germany.

Ford has some rules about ordering equipment which have simply had to be bent because the industry is on such a gigantic spending spree. The usual policy is that Ford does not want to account for more than 30 to 40 per cent of any one supplier's total output because "that's not healthy for them. or for us."

Ford provides a typical ex-One obvious example is Ford's ample of the way the liaison new engine plant at Bridgend in between the motor industry and The group said that the machine tool manufacturers

Once any capital expenditure programme has been approved by the Board of the parent company in the U.S., Ford of Europe then feels free to inform potential suppliers about the plans, This is normally about

Within a few months of the decision to go ahead with a new model, for instance, the main suppliers likely to be involved are individually contacted, given fairly detailed information about the types of plant and equipment required, about the timetable and about what Ford prepared to spend. Potential suppliers is the UK.

West Germany and the States all receive the same information about the same time. Ford has organised itself as European group rather than

country, so purchasing is co-ordinated on a European basis Ford claims that its experiordinated on a European basis too. One office in the UK and another in Germany share the

When selecting a particular item of equipment Ford looks first to see if the technology is right—will it do the job reliably?—and then to make sure it can be delivered to suit the timetable of the project for which it is required. Only at important when comparing one competitor with another.

But the fact remains that some German and U.S. com-panies won contracts for Bridgend because their prices were lower than the UK competition. On the other hand. Ford says that £4m of orders

one based in one particular the special machinery or tool. Newall's sister company within

ence has helped European machine tool companies win orders in the U.S. It encour-aged some of its suppliers to compete for orders from Ford in the States, which is spending \$20bn over five years.
One result is that Newall Engineering of the UK won a \$3m contract to supply pin-grinding machines for Ford's Cleveland, Ohio, plant and this was followed with a \$5m order for similar machines for Ford's facility at Winslow, Canada.

To get these orders Newall had to guarantee that there would be adequate back-up facilities-and indeed has put people into Chicago for this purpose. Ford UK was able to were turned away by British give reassurance to its Americompanies which said they can parent that Newall would either lacked the capacity or make good its guarantee.

the B. Elliot group, Keighley. has also won orders from Ford U.S., as has TI Churchill.

All this goes to show that the more intellectual the motor industry becomes the more the machine tool manufacturers must become international too -not necessarily to set up manufacturing plants in all major markets but certainly to have sales an dtechnical offices

There is so much work to be shared that no matter how much the British buy British, the Americans buy American, the French buy French, the Germans buy German or the Japanese buy Japanese, each will nearly always have to look outside their own country to obtain some of their machine

tool requirements. Kenneth Gooding

Technology reaches to the small

ANYONE GOING to Mach 80 with cheque book in hand journal. This is not meant programmed on the shop floor. as a warning-off, however. They have an understanding of it merely seeks to empha-ordinary language and they do sise that there is more to buying not have to be addressed in the machine tools than meets the array as at Mach 80, a show where the machine tool industry is pulling out all the stops. Report has it that £10m is being spent to put £100m of hardware into the Birmingham shop-

window. There are several basic reasons for buying a new machine tool—to maintain capacity, add to capacity, reduce costs, or do profitably things were not previously possible. Innovative technology can be an important factor in cutting costs. It is an essential factor to any manufacturer wishing to

impossible.

One thing is certain — there will be "chips with everything." Microprocessors have taken over. With their aid CNC (comtaken puter numerical control) is becoming available to small companies as well as large. The Machine Tool Trades' Association says that British manufacturers are particularly active on In all, the U.S. industry ery to a considerable extent— this cost-cutting front, aiming reckons it will have had to in- more than 80 per cent from UK- to halve prices from the £100,000

profit from the previously

in the current issue of its days, CNC machines can be arcane codes of NC. Nor do the eye-even in such a bewildering modern machines have to be accompanied by boxes of electronics, as NC tools used to be. The control gear all fits snugly inside the machine. The single entity can be moved about and installed with correspondingly greater ease, despatch and

economy.

Although the rising CNC generation is so accessible to communication between it communication between and shop-floor personnel, manmachine introduction has still to be effected. Conducted on production machines the formalities can be counter-productive. An interesting item to be shown at Mach 80 is therefore a microprocessored CNC training lathe, claimed by Denford Machine Tools to be the first of its kind. Priced at less than £20,000, and programmable for learning via a visual display unit, the Denford Micromaster could break into the thin-pursed education and training market. Because its price is so low, say the makers, they expect worldwide demand for it as a pro-

limited performance. Nobody with experience of another.

duction machine too, despite its

CNC machine tools should new technology would expect its appeal to small users on techni- application to be restricted to is what the trade calls DNCdirect numerical control - in which one central computer directs a number of machine

Automated

DNC is not as far-reaching as the ill-starred Molins System 24, which ambitious engineers wanted to launch years ago, when computers were still fairly new candidates for automative duties in factories. The world was not yet ready then for totally enclosed machine tools, being loaded and unloaded automatically as well as doing their own tasks under automatic control inside an integrated manufacturing system. The spirit of the Molins system lives on in DNC and its variants, however. Automated machine shops are already a reality in several Euro- manipulator or two, and when pean countries, in the U.S., Japan and the Comecon bloc.

In Norway there is an experimental plant whose CNC manufacturing system). When machines work round the clock. it can do without a crew it Workpieces are palletised during becomes a UMS (unmanned the day so that nobody need work at night. The machine tools continue throughout the night unattended. If one of and do not get their programs them breaks down during those fed into them on tape but are 'unsocial" hours a central computer redirects its work to tral computer, going behind the

DNC systems will be exhibited then the tape-reader is made articulated, with analogues of by a number of firms at Mach 80. One of them, Kongsberg, will should compose his shopping cal as well as financial grounds. the low end of the price range. One of them, Kongsberg, will list carefully, warns the Institution of Production Engineers trolled) tools of the pioneering of space on his cheque there in action. The programming centre is a minicomputer equipped with interactive graphic facilities. Programs will be prepared on the Kongsberg stand while you watch the machine tools affected on colsedcircuit television. They will be scattered among the stands of Alfred Herbert, Kearney and Trecker Marwin and other machine tool makers. The programs will be transmitted along aptical fibre cables demonstrating their immunity to the electrical interference being propagated round about.

In the jungle of esoteric initials (pronounceable acronyms seem to be less well favoured by the machine tool fraternity than others) it is as well to recognise the different species. So you should know that when a few batchwork machine tools share a conveyor or the combination is controlled by one computer, that combination is known as an FMS (flexible

manufacturing system). When the machine tools have their own numerical controls "instructed" directly by a cen-

redundant and the system pro-portionately more reliable. It therefore merits a new set of initials and is called a BTR (behind tape-reader) or RNC have a range of motion far ex-(remote numerical control) sys-

The British Standard definition of a metalworking machine tool is as a power-driven machine, not portable by hand while in operation, which works metal by cutting, forming physico-chemical processing or combination of these techniques. On that basis, manipulators and the like are not machine tools and are therefore referred to as auxiliaries. But Mach 80 is far from disregarding them on that account. The spotlight will fall on auxiliaries,

Robots

Among them will be the vitally important measuring devices. Even more dramatically illuminated, perhaps, will be the robots. But they will be seen in an appropriate environment. Thus one of the reduced-cost CNC machines on display, the TI Churchill 300 two-axis universal turning machine, will be found working in close collaboration with a robot.

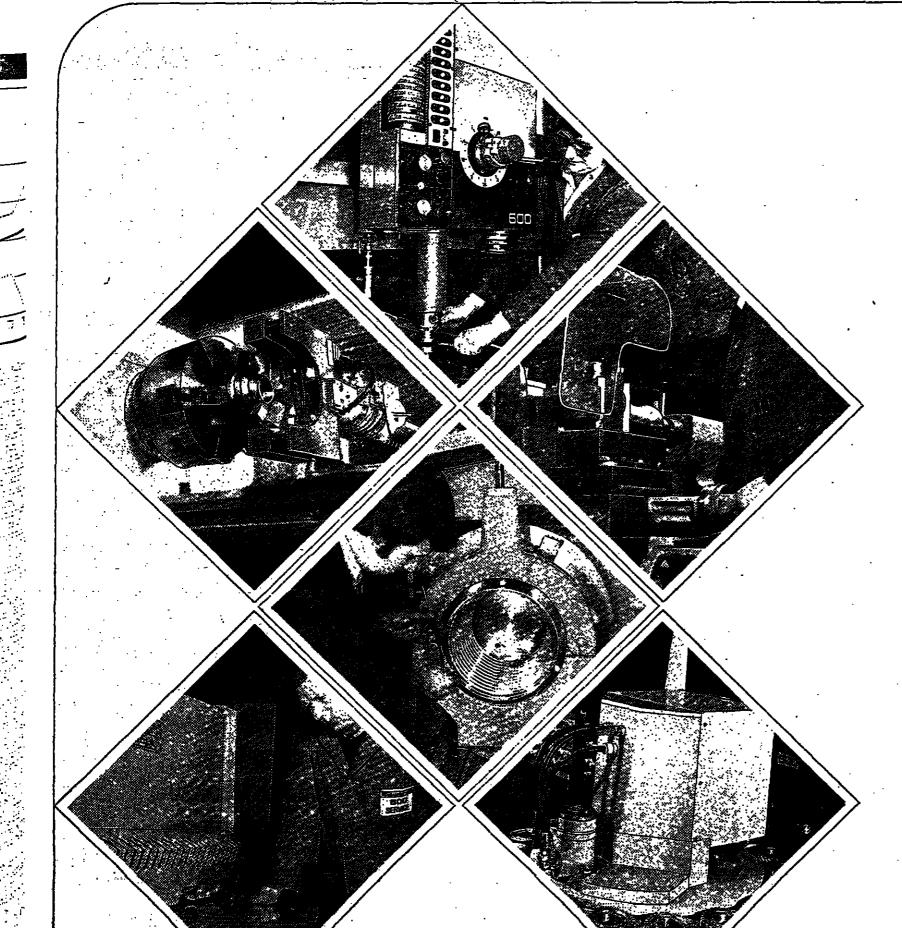
Industrial robotos are not the humanoid artefacts of science fiction. Broadly speaking they are mechanical limbs. The most tape-reader's back as it were, advanced of them are highly

shoulders, elbows, wrists and finger-joints. While at bottom they are vegetable, being rooted to the spot, above that they ceeding that of human limbs. They beat humansin other ways, too, working tirelessly, consistently and efficiently in condi-tions that flesh and blood could

not tolerate or survive. Robots are programmable manipulators. Some can be programmed push-button fashion. human operator guides the hand" of the robot through all the motions it is required to perform in a working cycle, the robot "memorises" the taks and thereafter repeats it end-Jessly on command.

In a typical machine show working cycle a robot picks up a piece of metal, moves it into the right positions and attitudes for successive cutting, grinding or forming operations, and finally deposits the product where it is required. Such attainments notwithstanding, today's robots are rather senseless creatures. Research and development is expected to have changed this situation in a few years' time, when robots with tactile and visual sensors will have acquired enough artificial intelligence not only to handle component parts during manufacture but subsequently to assemble them as well.

Arthur Conway





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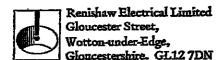
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Fears of imbalance in W. Germany

tools industry—the largest in Europe-has entered the new decade with mixed feelings. There is celarly a sense of relief that the industry is out of the mid-1970s doldrums but at the same time there is considerable foreboding about long-term

On the face of it manufac confirm that there are similar turers have little to complain trends in 1979. about Sales turnover started to A mixed picture then, but-pick up in 1978 and last year at least for this year—a healthy showed an average 7.5 per cent increase to take it well above the DM 8bn level. Allowing for price rises, this repersents a real increase of 3.5 per centstill a significant jump. In many continuing to sustain the indusparts of the industry order books are full for the next few months and there is little in which the sector becomes reason to suppose that productover dependent on vulnerable tion will slacken dramatically domestic customers. Export this year.

These are perhaps not terribly significant generalities in an industry as diverse as machine tools—some segments such as metal saws have fallen on hard times (1.3 per cent growth in

11 per cent growth in output Production wrenches and drilling and milling tools also saw a substantial increase while file output fell by 2 per cent. The figures for last year have not yet been released but manufacturers privately

one. Yet this is precisely the industry's dilemma—the root of current growth is also the root future problems. To be specific, domestic demand is try but there is imminent danger of a structural inhalance

sales have been stagnating and year after year the industry has been driven backs to the domestic stalwarts—the motor and construction industries, both of which have been enjoy-

Estimates

In 1978 export sales rose by 1 per cent to DM 4.9bn—in real terms a fall of 3 per cent. According to preliminary estimaets of VDMA, the association of German machinery manfacturers, machine tool exports rose by 3.9 per cent in 1979—representing a drop in real terms of about 1 per cent. The reasons for this are common ot most of Germany's manufacturing nidustry. First, labour costs—which account for 45 per cent of machine tool manufacturers' total production costs—are extremely high compared to those in other West European countries. The metal workers' union has recently been awarded a 6.8 per cent wage increase; with other benefits, this will add an extra 7 per cent to machine tool manufacturers' wage bills and further erode profits.
At the same time little

impetus was received—or can be expected this year—from the traditionally important customers in Comecon countries the Arab oil-exporting According

customers such as Poland are unlikely to step up their imports since htey are approaching the end of their five-year plans and have considerable foreign exchange problems. The OPEC countries for their part are less willing to recycle funds facturers than they were after the 1973 oil crisis.

The U.S., which takes 9 percent of German exports, is also booking less from Germany, largely because of the dollar's recent weakness against the D-mark. While this phenomenon has hit every German sector active in the North American market—from chemicals to cars the other concerns have been able to avoid some of the problems by investing directly in thet U.S. and setting up their own production bases. This has the advantage not only of avoiding exchange problems and of saving on labour and produc-tion costs; it also ensures that their market niche is not eroded and that design requirements are constantly kept abreast of shifts in U.S. demand.

This option is naturally attractive to machine tool-makers — but most German manufacturers are simply too small to adopt the strategy. Of the 400 machine tool companies only about 20 employ much more than 1,000 people. Of course, large concerns on the fringes of the machine tool business have not been slow to explore the possibilities of their use, if only to ensure that they do not fall behind in new tech niques of numerical control. That at any rate was the logic underpinning AEG Telefunken's co-operation agreement years ago with the McDonnell Douglas subsidiary Actron, which has been prominent in developing microelectronic controls for machine

That is the picture then for German machine tool exportsfurther stagnation, determined by high production and labour costs, by a strong currency and by shrinking demand on traditional markets. German machine

saws and blades have reported tools) and other East European linked to the uncertainties too dependent on too narrow a shrowding the market.

The major threat to the is in effect an offshoot of the problems afflicting export sales. Countries like Spain, Brazil and Poland are able to offer standard machines at much the way of machine tool manu- lower prices on the German market, thanks to their far cheaper labour costs. Imports rose by 11.5 per cent in real terms during the first threequarters of 1979 compared with the corresponding period in 1978 and now account for a third of the German market against only a sixth in 1965.

The most important supplier of high-quairty plant is Switzer-land, with 30 per cent of all imports. Next comes Italy with 11 per cent, followed by France and Japan with 9 per cent each. Japan has over-taken the U.S., which now has 6 per cent of the market. Meanwhile, the strength of

the Deutsche Mark against several other major trading currencies has further eroded the Germans' price competitiveness. The yen, for example, fell 30 per cent against the D-mark last year, sharpening Japan's competitive edge in world markets, especially in the field of numerically controlled

Inevitable

The fact of the matter is that there is not much standing in the way of further market penetration by imports. Smaller companies have tried their level best to keep prices down and stay competitive, but with rising fuel, raw material and labour costs, profit margins have been badly hit. Their only immediate hope is to rely heavily on the conservative purchasing habits of some major customers and to try and innovate as quickly as possible. In the long run it seems inevitable that imports will take an even greater share of the market and some of the medium-sized concerns will be forced to diversify

Commerzbank economic tool makers have weathered ing effect of import growth at analysts, the Soviet Union worse times as far as exports a time of export stagnation, (since 1973 the biggest customer are concerned—but rarely have there is concern among manu-

domestic reservoir of orders industries have served the of demand. But all the signs rationalisation measures. are that production of carsand to a lesser extent commersharply this year and stabilise at a relatively low level over the next two to three years. The boom is over—yet some of the smaller machine tool manufacturers are entirely dependent

> The construction boom looks like continuing a little while longer, but with higher interest rates and probable cuts in public works spending most analysts are reckoning with a serious slowdown towards the end of this year and the beginning of next. As with the motor industry, many companies cater solely for the machine tool needs of the building sector—and may thus have tough times ahead.

on the fortunes of the motor

industry.

But all this paints perhaps too dark a picture of the machine tool industry. Agreed, there is strong import penetra-tion, flagging export growth and an increasing vulnerability on the part of major domestic customers. But the domestic investment climate is healthy and Germany is still doing well even in difficult markets. It remians an efficient manufacturer, turning out reliable products and in many important spheres the world market leader.

But the key question is: how traditional advantages in a world of uncertain prices and to be three main elements in the . machine; tool industry. Germans' strategy for the 1960s. rationalise and to cut back on

secondary support jobs while analysis. Some manufacturers, retaining the skilled workforce for example, are becoming Between 1973 and 1977 German cerns will be forced to diversify or even go out of business.

Quite apart from the corrodabout 970,000. With labour expanding demand for simple ing effect of import growth at costs taking such a large slice hand drills and other machines. of their budgets, itis seen as

THE WEST German machine 1978) while others like wood for West German machine these problems been so closely facturers that the industry is forces to an effective minimum. range of industries. Admittedly some producers as they are the motor and construction mainly family concerns with machine tools sector well over their employees. But during the past four boom years, the difficult years after 1974 Indeed, orders from the motor the banks bailed out a good industry are still growing at a deal of these family enterrelatively brisk pace and the prises and it is clear that they repair sector is a stable bastion can push their clients towards can push their clients towards

The second prong of the German strategy is to gear up for innovation. This too is proving difficult for the smaller concerns, which feel they are often neglected by the Federal Research and Development Ministry when it comes to financing unovation.
The banks, however, have generally proved co-operative about putting up cash.

Modernise.

Some 60 per cent of the machines installed in Germany are more than 10 years old, acording to the machine tools association, while in Japan only 40 per cent of the machine tools are that old. It would require an estimated DM 13bn to modernise the German industry.

One major focus of R and D effort will have to be in new numerical control systems based on mini-computers. Greater use of micro-electronics would open the possibility of providing machine tools with an extended capability for switching from one product to the next with practically no down-time. general the Government has been unable to invest any great amounti n micro-electronics and Germany has certainly nothing like the U.S. "Silicone Valley." This places a considerable onus can the industry best retain its on the large electronics conprovide the necessary R and D sharp competition? There seem, and to assess the needs of the

The third line of German ationalise and to cut back on thinking for the 1980s involves

First, they will continue to straight forward market extremely interested in the do-

Roger Boyes

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U.S. becomes heavy net importer

THE U.S. machine tool industry about half of all machine tool the cycle-sensitive industries. made some impressive inroads Mr. Clifford Meyer, the is currently going through one shipments in the country. The current high rate of U.S. with particular types of high group's executive vice-president of its cyclical booms; order With Federally-mandated en-books are bulging and backlogs vironmental and fuel-conservaextend to 18 months or more. This might lead one to suppose foreigners, but the opposite is

The market is so tight that U.S. purchasers welcome with open arms anyone who can supply a piece of equipment with the minimum delay. So nimble foreign suppliers have been able to grab a good share of the business. Furthermore, the technological gap between the outside world and the U.S. narrowing, so quality differentials have ceased to be the obstacle they once were.

European and Far Eastern machine tool makers have in fact been increasing their market share for some time. In the early 1960s foreign companies had only about 5 per cent. But by dint of persistence and imporved performance they built this up steadily over succeeding years. By 1966 their share had risen to 10 per cent and by the mid-1970s to 12 per cent. In the last four years the trend has accelerated. In 1977 it reached 16 per cent, and in the first nine months of last year it was just short of 20 per

Heading The value of foreign supplies

in those nine months was \$740m in a market whose annual value is about \$5hn. was Japan, followed by West Germany, Britain, Switzerland and Taiwan in that order. The strength of the foreign

assault on the U.S. market hardly comes as a surprise. The attractions are enormous. It is by far the biggest and most lucrative market in the world. It also offers the biggest techo-logical challenges. And lately it has also shown an impressive which is likely to persist for some time to come. (An indication of this was the recent surge in the share prices of machine tool making companies. Shedding their somewhat prosaic ket's glamour issues for a while. matching the performance of the much-followed oil stocks).

The tightness of the U.S. market results from several factors. retooling programme going on industries, which account for demand for machine tools from

tion targets to be met in the coming years, Detroit is scrambling to prepare producyears, Detroit tion of smaller and more fuelefficient cars. The deadlines have in some cases, proved too tight, and there has been ome slippage. Even so, the motor industry is in the middle of what is probably the largest retooling operation ever witnessed in the U.S. This means that whatever hap-pens to the economy as a whole (including car sales, which have slumped in the last few months), the motor industry will give a stimulus to demand for machine tools for at least a couple of

There is a similar story in the U.S. aircraft industry, where giants like Boeing are gearing up to produce the next generation of passenger jets. Again, this is a major exercise since it involves setting up capacity to produce aircraft which will satisfy the market for the rest of the century. The move to greater energy

efficiency is not, of course, con-

fined to the motor and aircraft makers. Many other industries are going in the same direction, giving the trend a broad base. A more recent bullish development is Washington's renewed emphasis on defence spending following the deterio ration in relations with the Soviet Union. Although the impact will be less dramatic than that created by the motor Heading the list of suppliers and aircraft industries, the prospect of accelerated develop ment and production of nev weapons is good news for machine tool makers. Moreover, given the long lead times in volved, defence may well add strength to the market just as the demands of the motor and aircraft makers start to tail off. Proposals to reform the U.S.

capital depreciation rules by accelerating write-offs should also spur industrial capital investment. Under new regulations all machinery would be depreciated in five years (20 per cent in the first. 32 per cent in the second, 24 per cent in the third. 16 per cent in the image, they became the mar- fourth, and 8 per cent in the last), compared to the some-what arbitrary but longer

periods now ruling. If there are clouds on the horizon, they have to do with The main one is the massive the likelihood that the U.S. economy will go into a steep in the U.S. motor and airline recession which will damp down

U.S. TRADE IN	1979	-
(\$m)	Exports	Imports
Metal-cutting machine tools	544.9	1,024.6
Metal-forming machine tools	333.8	241.9
Total	878.7	1,266.5

Source: U.S. Commerce Department.

inflation also poses a threat to

Inroads

The greatest inroads made into the U.S. by foreign companies has traditionally been in the lower technology goods, as shown by the relatively high level of shipments of lathes, drills and so on. The more sophisticated end of the market is still strongly controlled by the U.S. manufacturers. This applies particularly to electronically controlled machine tools, whose makers are able to draw on America's world lead in com-puters. Complex machine tools like machining centres are also dominated by the U.S. com-

The machine tool market is highly segmented, however, and while the above may be true as threat is there but not congeneralisations, foreigners have sidered to be serious.

technology equipment. The machines for industry.

Mr. Eli Lustgarten, machine tool industry analyst for Paine Webber Mitchell Hutchins, the Wall Street brokers, commented: "Foreign companies are producing more advanced machine tools now, and the per-centage of the market going to them is increasing because the technology gap is not so wide. There is no question that this is something for the American companies to worry about." Quite how worried probably

depends on how well placed they are. For industry giants like Cincinnati Milcron the

of operations, commented that Japanese have done well with in today's market there seemed numerically controlled small to be room for everyone. But lathes and machining centres, he added: "Is it a temporary the British with grinding phenomenon brought on by what is happening now, or will it de out? It depends on how well the foreign companies can service their clients." Some companies and countries, he concedes, have done "extremely well," but it is too early to judge the success of all of them. Observers of the industry seem to agree, however, that the present tightness of the market offers foreign producers a rare opportunity to gain a foothold. If they can consolidate it by providing all the necessary back-up, they may even be able to hang on to it

David Lascelles

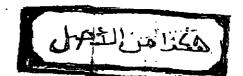
when things get tougher later

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French sales move into surplus

THE FRENCH machine tool control methods; at the same balance on its account trade industry typifies many elements time it was becoming much of the new vitality which has more internationalised, with flowed into the country's manu- certain companies and countries facturing sector over the past establishing dominant positions decade. Until two years ago it in specific applications. had always been in deficit on the investment in technology its foreign trade account. In 1978 it broke through into surgius for the first time, and it The creation of the EEC played now seems to have established a big part in this process, enitself among the technical couraging and pushing the leaders in the world industry. French industry to make a seventh or eighth manufacturer in the international league strength of the West German manufacturers. Re 1977 the table (depending on currency variations), it is on a par with

gradually, as the producers Germany became its most im-have adapted themselves to the wider market opportunities which came out of the EEC and France's general push into export markets. Until this period French manufacturing industry had for historic reasons relied on overseas suppliers for a large proportion of its tooling. In the era of the Industrial Revolution this tradition had established itself because of the dominance of Britain in manufacturing. French producers industry's machines have to be looked to the UK to furnish bought from specialised overmost of their important de-

The preference for British goods became rooted in the system because of the investment in skills to make the machinery work. But after World War I German tools were also imported in big numbers because they formed part of the war reparations agreement. In the wake of World War H France again looked overseas to tool up for its industrial expansion, this time to the U.S.

In the 1950s, however, the French machine tool industry came to the conclusion that it needed to make a concerted rest of French industry, one effort to expand in order to defend itself against the new that producers have become technological development more dependent on the overseas been felt by the workforce, occurring abroad. It was clear economic climate. This year, for which has shrunk from a high at this time that the industry example, the French manufac-

manufacturers. By 1977 the French industry managed to to cross an important psychothe UK industry.

to cross an important psychological threshold, in that West

> A third important motive element for the industry has been the strength of France's motor manufacturing sector in the last 10 to 15 years. The continuous expansion of car manufacturing, combined with the corresponding investment in tooling of all kinds, has kept orders flowing into the domestic machine tool producersalthough, of course, many of the

Client At the same time the growth of the French vehicle producers foreign operations has fed through into export orders for the machine tool companies. Last year, for example, Romania was the largest single foreign client for French products. This was almost entirely thanks to the order Citroen, the vehicle producer, has won from Romania to build a new plant making a French-designed car. In common with much of the result of this export effort is many companies have dis-

tion in world activity. Lust year, in better economic circumstances, the French producers achieved a surplus of FFr 370m, despite a substantial rise in imports from FFr 1.3bn to FFr 1.6bn. Exports went up from FFr 1.7bn to FFr 2bna figure which compares with only FFr 642m ten years

Sales abroad have grown so quickly in fact that they have become during the last decade or so the main driving force of the industry, accounting for well over half of production and sales. In 1979 almost 65 per cent of output, on the basis of tonnage, was exported. In 1979. however, the industry also benefited for the first time in five years from favourable domestic conditions. Sales began to rise strongly in the spring under the influence of a widespread surge in investment, one of the results of improved business margins, and have only just begun to level off

The result was probably the best year financially since the 1974 oil crisis. Although the French industry went through a buoyant spell in 1975, when the reflation programme of the then Prime Minister, M. Jacques Chirac, was in full swing, this was extremely shortlived and was followed by several fallow years after the bottom fell out of the bom and M. Raymond Barre, the present Prime Minister, introduced his more conservative style of economic management

The tougher market conditions of the last five years have appeared. The main effect has which has shrunk from a high point of about 27,000 in 1972 to was moving into an era of techturers expect that the industry 20,000 last year. By far the nology based on electronic will be only just about in greatest proportion of this

business. Domestic customers,

1977, 20 per cent in 1978 and

The marked cheapening of

imported units in terms of Swiss francs has now come to an end.

though, and local suppliers are

now much better placed to hold

their own. Over a half alone of

all imports of machine tools

come from the neighbouring

Federal Republic, other major sources last year having been

Italy, France, the UK, Japan

The Swiss market is regarded

tool industry. Switzerland serves as a popular test market,

both because of its high level

of industrialisation and the

high standards set by buyers. Some thirty countries or more

are currently supplying machine

tools to Switzerland, which last year imported these to the tune

of over SwFr 256m (\$142.2m).

While much of the import business is made up by serial and standard machines, Switzer-

land's 180 machine tool manu-

facturers are concentrating

more and more on special units

with a very high know-how content. This has kept sales

prices more elastic than would otherwise have been the case,

the generally small and medium-sized producer com-panies having shown consider-

able flexibility in keeping up to

Among the leading specialities

of this kind are such machines as the so-called "Swiss-type" turret automatic, co-ordinate

drilling and milling machines, gear cutting and finishing units,

electrical - discharge processing

machines, fine cutting equip-ment, and high precision copy-ing lathes and copy milling machines. Switzerland was not

in the forefront of numerical

control developments but has

since made up a lot of ground

as demand for these uits has

This stressing of high quality products calls for corre-

spondingly high expenditure on

product development. Current

profits do not seems always to

be enough to meet R and D

requirements. Last year Mr.

Georges Mégel, chairman of

the association's machine tools

grown rapidly world-wide.

market needs.

the international machine

Neighbouring

and the U.S.

tool

FRENCH	MACHINE 7	OOL INDUS	TRY
Workforce	1979 20,100	1978 20,700	% change 1979/1978 — 2.8
Production (tonnes)	74,434	72,399	+ 2.8
Production (value)	FFr3.7bn	FFr3.3bn	+12.1
Exports (tonnes)	47,805	49,320	- 3.0
Exports (value)	FFr2.0bn	FFrl.7bn	+17.6
Imports (tonnes)	39,714	35,638	+11.4
Imports (value)	FFrl.6bn	FFT1.3hn	+23.0
Trade balance	+FFr370m	+FFr420m	-12.0

shrinkage has come among the manual workers, down from about 17,000 to 12,000, as the ndustry has tried to improve its productivity while continu-ing to invest in skilled workers. Alongside this progress in productivity, however, there have been a number of amalgamations designed to reinforce commercial networks and com-bine financial resources. Perhaps the main reorganisation of this kind was pushed through by the Line group about two by the Line group about two years ago, creating an organis-ation of about 2,250 workers. Line did not close a single fac-tory in this process, which brings together seven com-panies under a single holding structure, but activities in the ten plants under its control including one in North America, have been stremlined. Turnover amounts to

Specific

The crisis has also had the effect of forcing companies to concentrate their efforts on more specific areas. Several of the big French companies, including Line, Ernault Somua of the Empain Schneider group, and the CIT-Alcatel works at Graffenstaden, still have a wide range of products. But some of the best-known names are closely linked with specific industries. Berthiez, for example. is under the control of SNECMA, the nationalised aero?engine concern, and does a great deal of work for the aerospace industry, including ineveitably led to a shake-out the rocket and space activity of in the industry, but not all that Aerospatiale. Manurhin — in which Matra, the advanced technology company, recently taken a 30 per cent stake—also does a lot of specialised work for the armaments industry

sector is in the vehicle industry, which is reckoned to account for about 20 per cent of all French machine tool sales. Two of the French vehicle companies, Renault and Citroen, have well-developed machine tool divisions on their own account, making equipment both for internal use and

Whereas Renault has for some time treated these activities as a separate entity, Citroen has only recently tried to look outside its own factories for clients, setting up its machine tool division as a separate profit centre. The company has a range of specialised tools almed in the first place to machine to more precise standards because of the demands of its idiosyncratic suspension and steering

designs. During the financial crisis which hit Citroen six years ago and forced it into a merger with Peugeot, the new management decided that this was one activity which could increase income by setting out on an independent search for customers.

While many of its orders still come as a spin-off from its car activities—such as the new factory in Romania—there are in the past, others which have come from this division alone. These in-clude deals with Volkswagen, Renault, and Saint-Gobain-Ponta-Mousson, the big French conglomerate.

Citroen's experience is a typical, if extreme, example of the way the French industry has turned recently to overseas markets. Its activities in Eastern Europe—not only in Romania but also in East Germany, where it is building a factory to make universal joints for front-wheel drive cars-also underline the heavy dependence of this foreign trade on the Communist bloc. Last year Communist countries were the largest overseas clients of the French machine tool producers, accounting for FFr 611m of orders against FFr 534m in the EEC. Some critics believe this extended by the second control of the second point by beginning to diversify its overseas markets and, in its overseas markets and, in despite the finy droy in real particular, to make a big effort exports last year ,the sector's

Terry Dodsworth is a sum that roughly covers Union was the Italian machine

in Italy THE RECENT vigour displayed one month of Italy's current tool

Europe only to that of West the m Germany, is in many respects which an uncanny reflection of what people, has happened in the Italian It is economy at large. Last year was almost a boom year for Italy. Gross Domestic Product grew by 5 per cent, the most real progress of any Community country, and industrial produc-

tion rose by even more. For the machine tools sector the performance was even more impressive. First estimates from the national manufac-turers association, UCIMU, suggest that production last year climbed by 25 per cent in value terms, and 10 per cent in real terms to L1.125bn (\$1.27bn). The main factor underpinning this growth was-for the first time for several year-a sharp increase in the home market's demand for machine tools of around 20 per cent. Exports, which have since the onset of. the economic crisis of 1974 provided most of the sector's Switzerladyhamism, did not grow, and in France. fact showed a marginal decline of 0.7 per cent in real terms. The industry itself, however is not dispirited by this reversal of a five year trend. Analysts

point out that the rapid rise in home demand meant that it was impossible to meet demand from abroad as successfully as

Advantage

More important perhaps, it was domestic producers of machine tools which attained most advantage from the extremely buoyant home market in 1979. While demand grew by one fifth, importers managed to increase their sales of tools in Italy by just 11 per cent. Preliminary figures from UCIMU indicate that the share of imports of home consumption dropped narrowly to 27.8 per cent from 29 per cent in 1978. That year imports accounted for L165bn (\$187m) of total spending by Italian-based companies of L559bn (\$635m) on

machine tools—in terms of weight 33,820 tonnes out of overall demand of 94,900 tonnes. Exports in 1978 accounted for more than half—L506bn (\$575m)—of total output of L900bn (\$1.02bn). The resulting trade surplus was L341bn. and UCIMU now reckons, that net trade surplus rose slightly

by the Italian machine tools annual trade deficit. Thus can industry, second in Western be measured the importance of the machine tool industry, which employs around 37,500

Vigorous sector

It is centred, predictably, in the industrialised north of the country, and its structure reflects much of what is most dynamic in the Italian economy.

The companies tend to be small and highly specialised, and with an export organisation that belies their size. It is sometimes argued that further rationalisation into bigger productive units is likely but experience in other fields of industry in Italy gives grounds for coution. Bigness, in Italy especially, is all too often a recipe for infficiency

world's third largest exporter of machine tools, outstripped only by West Germany and Japan. In the past decade it has overtaken six other countries, including the U.S., Switzerland, Britain and and France. The reasons are various, but there is little doubt that the motivation for the successful export drive stemmed from the slump in home demand in the early 1970s, which has been properly reversed only in 1979.

In any case Italy is now the

Exporting was literally the only means of survival, and over the last decade the structure of the industry has perceptibly changed. Concentration on foreign business has become the norm, rather than the exception. Companies have an international outlook, while UCIMU itself has provided a useful support. Carefully promoted fairs and demonstra-tions, for example, have been mounted in potential export markets like South Africa and

At the same time the industry has been blessed by the warm commercial relations existing between the Comecon countries and Italy-in turn built on the proven success of big Italian groups in Eastern Europe, and the useful entree into Communist and radical Third World countries which has derived from the existence of a powerful Communist Party at home. This is all part of a generally low profile foreign policy, which has enabled the country to maintain good relations in most parts of the world.

The result has been that in

manufacturers' biggest market, worth L75bn u). After West Germany and France, the second and third markets respectively, came Romania with L43bn (\$49m), then Britain and the U.S., with Czechoslovakia in in seventh place. As an UCIMU official pointed out recently, the absolute need of these countries to expand their narrow industrial bases means that they have the greatest need for machine tools. In the West, on

the other hand, conditions are much tougher. The market is primarily one of replacement and modernisation of existing plant, with a much slower rate of overall expansion of the manufacturing base. Italian companies have also changed their image significantly. The early phase of the industry's export development was helped by the considerable price advantage given by the devaluation of the lira between 1973 and 1976. But latterly it

has been technical expertise and quality that has given the industry its edge. In price terms there is not very much to choose now between an Italian and a West German product. This is coupled with the proven ability of Italian com-

panies, in this as in other fields,

to meet the specific require

ments of foreign clients. A frag-

mented structure works in favour of a great specialisation among the myriad producers. They can manufacture a particular machine in very small quantities (sometimes just a one-off) to match the exact need of the foreign or home customer. Closer to home, however, the industry's prospects are less rosy than in 1979. Economic forecasters disagree on the extent, but there is no doubt that industrial expansion will be much reduced in 1980—per haps to zero growth in the later stages of the year. Much the same goes for the major Western export markets which

Meanwhile, soaring domestic inflation, running in excess of 20 per cent a year, is inexorably pushing up costs and threatening price competitivity. A lira that is now part of the European Monetary System no longer offers the possibility of a swift and painless devaluation. It remains to be seen how machine tools manufacturers, like the rest of the country's engineering industry, will react to the changed circumstances.

are so important for the

industry.

Rupert Cornwell

Switzerland among the world's leaders

world. Its position on export rept year. since over 80 per cent of total other sectors of Swiss industry, provement in domestic sales. In narrowing manufacturers concentrate on a recent communique the Swiss further in 1979. special products with high unit Association of Machinery Manuvalues: price per tonne of ex-ported machine tools, at some "cautious optimism" for the SwFr 40,000 (\$22,220), is more machine-tool business. than double the average import

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been limited by the high Swiss franc exchange rate and to about seven months' output, or some extent by sluggish rather less than the adjusted demand. In the period between seven-month level for the final 1974 and 1978 exports had been quarter of the previous year. showing little expansion - indeed, lost some ground in real terms with no opportunity to 1974 average. At the same make up the slack on the home clined in the years 1974-76 alone making it impossible to pass on by about one-third, averaging higher wage, material and only about six months' production. Subsequently, order books showed only, a slight im-

As far as total exports are 1979. Overall value of sales to foreign markets went up by 12.6 per cent last year to tion. Sw.Fr 1.31bn (\$727m). Most Profitability has been under companies have been reporting pressure for longer than just

Although orders

Despite this improvement the price. industry is still far from boom-For some years growth had ing. At the end of 1979 orders on hand were equal to only This is a far cry from the just over nine months booked as a time, competition has remained Work on hand de-very tough at home and abroad, energy costs to the customer in the form of corespondingly higher prices.

This is only partially offset by the weakening of the Swiss concerned, the industry regi-stered a noticeable upturn in consequent improvement in consequent improvement in actual export earnings and Switzerland's competitive posi-

well over \$900m annually, the and inquiries, and employment of international competition, rate of research and develop-Swiss machine tool industry is seems to be guaranteed for at flagging demand and an unment spending would be of one of the most important in the least the first half of the curfavourable exchange rate has, about 3 to 4 per cent of turnmarkets is particularly strong, have fallen off from the Swiss Swiss machine tools have hardly been attained in Switzerland since over 80 per cent of total watch industry, there have also risen in price over a period of The machine tools industry output is sold abroad. As in been signs of an overall im- years; margins had been suffers, as do other sectors of and narrowed Swiss engineering, from a lack of sufficient skilled labour. This This continued pressure on is detrimental to Swiss franc prices has not attempts to shorten delivery unnaturally been accompanied dates in today's highly competi-

by a marked swelling of import tive international market. Demand is nevertheless pick many of whom have themselves ing up. A much needed boost been directly hit by recession was provided by the European been directly hit by recession and the effects of the currency Machine Tools Exhibition held crisis, were in no position to in Milan last year, with subse"buy Swiss." Sales of foreign quent orders described as "good
machine tools on the Swiss to very good," according to a
market rose by 40 per cent in statement made early in 1980. Over 30 Swiss manufacturers will be taking part in this month's MACH 80 in Birmingagain by 15.5 per cent last year. ham and September's IMIS-80 in Chicago.

As far as foreign demand is concerned, there has been a definite drop in purchases by the OPEC countries after heavy spending in previous years; these sales, however, account for only a fraction of Swiss exports of machine tools. More important was last year's 6 per cent decline, to SwFr 242.3m, in exports to Comecon countries. As recently as 1977 these had accounted for nearly 30 per cent as a particularly attractive one of all Swiss machine tool exports, as compared with only 18.4 per cent last year.

These losses and individual declines in a number of minor markets have been more than made up for by growth of Western-world demand, though. Of particular importance to the industry is the Federal German market, which alone acounts for 22 per cent of all export sales. Aided by a marked weakening of the Swiss franc in terms of the Deutsche Mark, Germanbound deliveries jumped in value terms by a full third in 1979 to al evel of SwFr 289.7m (\$160.9m). Similarly, exports to the UK rose by 28.3 per cent over the year to SwFr 84.2m (\$46.7m) and those to Italy by no less that 43.1 per cent to SwFr 67.1m (\$37.2m). Most Western industrialised markets showe da good rise in 1979 in purchases of Swiss machine tools, among them the U.S., France and Japan.

Second only to West Germany tools is still the Soviet Union, with a 1979 purchase equal to SwFr 121.3m (\$67.38m). In 1976 and 1977, though, Russia had been even bigger than the Federal Republic as a buyer with sales of almost SwFr 200m in each of those years. Swiss manufacturers will continue to work at developing sales in Russia, but things do not look particularly promising at present Elsewhere in the Communist world business is looking up. In China, now the seventh biggest export market (after Italy) sales leapt 77.8 per cent

last year to a sum of SwFr 39.3m

(\$21.8m)...

John Wicks

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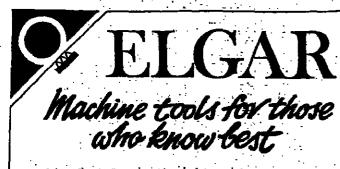
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Assd D Goods 1718 1738 Atlantic Rich 831c 8418 Auto-Data Prg 3614 3614	Dr. Pepper	. 11	int, Harvester int. Income Prop int. Multifoods int. Paper	104	104 0 1458 0	verseas Ship, wens-Corning wens (!linois 'HH Group	g. 234 234 214 214	Texaco	535g 325g	earnings, put on active trading.
Avery Intl	Du Pont	18 2614	int. Rectifier int. Tel & Tel iowa Beef	1 00 ! !	90s. I 5	PG Inds abst Brewing ac. Gas& Elec	2734 2778 1114 1114 ot: 2834 2234	Texas Easter Texas Gas Tr Texas Instru Texas Oil & C Texas Utilitie	71 2514 2569 hts 8049 8059 hts 3634 5634 hts 1846 1849	vice issues, Superior \$5 to \$137. Califor
Avnet	Easco	56 1356 34 678	rving Bank James (FS) Jeffn-Pilot Jewel Cos	2012 2368 248	20 P. 238 P. 24% P.	ac. Lighting ac. Lumber ac. Tei & Tei alm Beach	43 43& 12 117a	Textron	311g 313g 221g 325g Fron 221g 23	25 to 5055, stugge S583 and Schlumb
Bangor Punta, 21 2112 3 3 1714 5	Eastern Gas & F. 16 Eastman Kodak. 46 Eaton	66 4738 34 2014	iim Walter Iohns Manville Iohnson Contr	1878	1876 P	alm Beach an Am Air an Hand. Pipe arker Drilling.	418 418 5 6214 6219	Tidewater	51 3178 2014 2012	Value Index clim
Bankers Tst. NY. 4214 4216 Barry Wright 2056 2178 Bausch & Lomb 3834 39	Electronic Data. 20 Electronic Data. 20 Elect. Memories. 3	58 2034 34 334	iohnson & Jns Iohnathn Logan. Iostens Ioy Mig	2018 1848	718 P	arker Hanfn eabody inti enney JC	25 25ag 2014 21 2214 22ag	Times Mirror	29 29 4614 4734	Clering prices
Beatrice Foods 4158 4112 Beatrice Foods 1859 1854 Beckman Instr 237a 24	Emerson Elect 29: Emery Air Fgt 13	78 3048 1 13 1	Calser Alumin Calser Steel	.[18]: .[854 <u>8</u>]	1812 Po 3583 Po	ennwalt ennzoil eopie's Gas	261g 251g 355g 357g 407g 415q	Tipperary Tonka Total Pet Trans	20% 21	
Beker Inds 101 ₂ 101 ₅ 201 ₅ Bell & Howell 201 ₅ 201 ₄ 391 ₅ Beneficial 197 ₅ 20	Embart MC 25: Englehard MC 26:	[5	(aneb Services (aufman Brd (ay Corp (ellogg	73g 154g	77" P	epsicoerkin-Elmer etrie Stores	X51e 25	Transamerica Trans Union, Transway	2078 21	CANADA
Beth Steel	Envirotech 79 Esmark 25 Ethyl 22 Evans Prods 17	58 77a 1 2536 1 59 23 1	Cellogg Cennecott Cpr Cennametal Cerr-McGee	X414 }	254 254	etrolane fizer heips Dodge hile. Elect	367g 378g 263a 273a	Trans World. Travelers Tri Continent	10 104 384 384 174 174	Stock April
Black & Decker 1778 1814 Block HR	Exxon	4 5668 k	Gidde Walter Gmberley-Cik Gng's Dept. St Gnight Rdr. Nws.	. 1 38 1		hila, Elect hilip Morris hillips Pet lisbury	401a (401a	Triton Oil Gar 20th Cent. Fo Tyler	X 45 4134 114 184	Agnico Eagle 101g Alcan Alumn 267g
Boeing	Faberge	2 11.2 31a 294	Coehring Coppers Craft	1656 1 194 2 4258 4	161 ₂ Pi 201 ₂ Pi 421 ₆ Pi	ioneer Corp Itney-Bowes Ittston	3914 3878 2958 3015 1918 1958	UMC Inds,	145g 151g 1114 111g es 105g 111g	Algoma Steel 29 Asbestos 3134 Bk Montreal 2338
Braniff Intl 61g 614 Briggs Stratn 2134 2134 Bristol-Myers 325g 325g	Federal-Mogul 14: Fed. Nat. Mort 13: Fed. Paper Brd 24: Fed. Resources 5:	4 1378 F	(roger TV	368 1478 1378	554 P	lesseyolaroid	307g 3012	United RV Union Camp. Union Carbid UnionComme	3634 37 e 3712 3818	1
BP. 30 30 Brockway Glass 14 1534 Brown Forman B 3534 3534	Fed. Dep. Stores. 22: Fieldcrest MI 24: Firestone 6:	14 2814 L 14 241 ₂ L	anier Bas. Prod. ear Slegler easeway Trans.	194 2 204 2	201a Pi	otlatohrentica-Hali roctor Gamble ub. Serv, E & G	- 17 1634 674 674	Union Oil Cal. Union Pacific	47 4714 7118 7318	Bow Valley 39 BP Canada 40 Brascan A 2578
Brown Grp 221g 221g Brown & Sharp 21 214g Browng-Ferris 14 133a	lst Bank System. 341 lst Charter Fin 121	8 12½ L	sesonaenoxenoxenoxevi Straussevitz Furntr	2008 2 3568 3	612 PL	ub. 8. Indiana. ujimanurex urexurojatorurojator	21½ 20 14¼ 14¼	Uniroyal Utd Brands Utd Energy R US Fidelity G.	978 1014 ee 2816 2916	Brinco
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Burlington Ind 151s 151c 571s 567s 567s 567s 567s 567s 567s 567s 567	1st Nat. Boston 281 1st Pe nn	14 28 ag [18 6 ag [incoln Nat Itton Inds ockheed	465s 4 29 2 635s 8	161 ₈ Rz 191 ₄ Rz 135 ₈ Rz	siston Purina. Amada inns	20 2058 10 1018	US Inds US Shoe US Steel US Surgical	1678 17 2378 241	Can Packers 3112 Can Perm Mtg 18 Can Trustoo 2214 Can Imp Bank 245
CBI inds	Fleetwood Ent. 57 Flexi-Van	16 lg 1	one Star Inds ongs Drug Strs ouisiene i and	2418 2 2368 2 3870 3	14 L 13 L 19 L	ank Org ADR aytheon bading Bates edman inds	641g 6514 325a 333a	US Tobacco US Trust	3018 4018 1812 1814 5734 3854	Can Imp Bank 245, Cdn Inds 26 Cdn Pacific 38 Cdn Pacific Inv 384
Campbell Red L. 27% 284 Campbell Soup 26½ 27 Campbell Tagg 21 205%	Foremost Mck 231 Foster Wheeler 251 Foxboro 336	8 25 L	ouisiana Pac owenstein ubrizoi ucky Stra	758 5212 5	778 Re	eves Bros sichhold Chem sliance Group	283, 283, n. 116s 12	Utd Telecomn Upjohn VF Varian Assocs	4658 4614 1970 1970	Cherokee Res 25
Can Pacific 32 324. Carlisle Corp 20 2012	Franklin Mint 71 Freeport Mini 323 Fruehauf	8 3518 N	ICA lacke lecMillan	4812 4 813 11 1	1868 Re 84 Re	public Steel p of Texas sch Cottrell	_ 2478 2454 - 1214 121s	Vernitron Virginia EP Vulcan Matris	712 758	Chieftain
Carter Hawley . 16 . 151	GAF	2634 N	lacy ladison Fund Ifcrs Hanover	31 3 17 1 283 2	15 ₄ Re 67 ₈ Re	wco (DS) Wara Copper	24 ⁵ 4 25 23 22 ⁵ 9 11 ¹ 6 11 ¹ 6	Vuican Matris Walker (Hiram Wallace Murra Wal-Mart Stor	1)_ 28& 38&	Coseka Res 1712 Costain 612 Daon Devel 578 Denison Mines 41
Caterpillar	Gambie-Skogmo 335 Gannett	8 3258	larethon Oil	594 5	334 Re	vion exnord eynolds (RJ) eynolds Mtis	30 lg 30 kg 275e 285e	Warner Comm	1614 1518 5 3634 3758	Dome Mines 65 Dome Petroleum 62
Gentral & SW 14 1414 1414 1414 1414 16	Gen Am Invest 121 Gen Cinema 183 Gen Dynamics 595 Gen Electric 443	2234 N 2 1242 N 6 1842 N 4 6376 N	larine Mid lariey larriott larsh McLenn larshall Field lartin Mitte	19 1 7	8 R4 53, R6 3 R0	on- Merrell ta Aid Aadway Exps	1956 1934 2234 23 2312 2314	Warner Swase Washington P Waste Mangt Weis Mkts	ny., 7212 7218 ost 16 1618 39 39	Dom Bridge 145g DomFoundries A 3112 Dom Stores 171g Domtar 2132
Cessna Aircraft 1234 1234 1234 1234 1234 1234 1234 1234	Gen Exploration 25 Gen Foods 25 Gen Instrument. 40a	8 254 N	laryland Cup	195g 2 215c 2	0 Ro 15g Ro 77g Ro	obins (AH) chester Gas., ckwall Intl hm & Hans	135g 131g 441g 457g 335g 337g	Wells Fargo W. Point Peppl Western Airlin	291 ₂ 297 ₈ 291 ₂ 297 ₈ 67 ₈ 67 ₈	Domtar 2154 Falcon Nickel A. 98 G4nstar 251 ₂ Gt-West Life. 150 Gulf Canada 144
Charter Co	Gen Mills	2 1 1 2 1 M	lassey-Fergn lass Multi Corp. lattel lay Dept Strs layer (Oscar)	65e (414 Ro 658 Ro 934 Ro	ilins im per Corp ^e	241 ₂ 22 341 ₂ 347 ₈ 65 ₄ 83 ₄	Westn. Bancor Westn. Nth.Am Westinghouse Westvaco	197a 201 ₂	Guifstream Res. 5 Hawk Sid. Gan 1534 Hollinger Ags. A. 3712
Chessie System. 2818 2712 Chicago Pneum. 17 1758	Gen Reinsce	2 311 ₂ M	aytag aytag cCulloch Oil cDermott (JR) _'	22 2	21g Roy 93g Roy 33. Pui	wanyal Crown yal Crown yal Dutch bbermaid	. 11 11½ . 75% 75½	Weyerhaeuser Wheelabratr F Wheeling Pitts	255g 255g 325g 327g	Hudson Bay Mng. 251 ₂ Hudson's Bay 255 ₈ do. Oil & Gas 1061 ₂
Chubb 381 ₂ 385 ₈	Gen Tire	278 M	cDonaid's	404 40 31 3	014 Rus 312 Rys 2 Rys	ssell Stvr an Homes der System	124 124 184 1859 1816 1816	Whirlpool White Consolts White Motor	16 1578 1. 1918 1918	Husky Oll
Citicorp	Genuine Parts 201; Georgia Pac 221; Geosouros 491; Gerber Prod 181;	2 227 ₈ M 1 491 ₂ M	cGraw-Hill	275, 21 77, 21	BL ISP	N Companies S Technology. Ieco Ieway Stores	. 263a) 261 ₉	Whittaker Wickes Williams Co Winn-Dixie Str.	2034 2118 1218 1214 288 2834	Imp Oil A
Clark Equipment 303, 31 Cleve Cliffs Iron, 267g 263g Clorox 81g 81g	Getty Oil	72 M	edia Geni editronic elion Nati	225g 22 585 60	212 St. 034 St. 554 St.	Louis-San F Paul Cos	. 40 401 ₈ 571 ₈ 571 ₈ 55	Winnebago Wisc Elsc Power Woolworth	178 2 er 24 243e 231e 235e	Kaiser Res
Coca Cola	Global Marine 45 Goodrich (BF) 177 Goodyear Tire 115 Gould 217	1178 M	emorexercantile Strs	311 ₂ 31	134 Sau 44 Sau	Regis Paper nta Fe Inds nta Fe Inti ul Invest	. 3012 3058 554 554	Wrigley Wyty Xerox Yellow Frt Sys	634 7	Marks & Spenser 8 Massey Ferg 9 McIntyre Mines. 54 Merland Explor. 22½
Colt Inds	Graco	331 ₂ M 293 ₄ M	errili Lynch	35 55 173 ₈ 17	5 \$ax	ton Inds hering Pio	.i 4458 ∤ 459 i	Zapata Zenith Radio	255: 26	Mitel Corp
			I					·		Nat.Sea Prods A. 1218 Noranda Mines 2268 Norcen Energy 524 Nthn. Telecom 594
NEW YORK-DOW JON	ndices					ļ __ 1	11	19	180	Oakwood Pat 165, Omni 2.00 Pacific Cooper
1 1 1 3	or, Apr. Apr.)		NUSTRALIA		-	pr. Apr. Apr. 21 18 17	High	Low	Patino
↑ Industr'is 769.18 763.40 768.88 771	ı : (1 <i>5/2</i>)	1 (21/4) (T	51.70 41.22 M	ydney All	Ord. (1936	3/68) 777.90. 77 58) 4695.81 469	78.71 785,10 782,3 17,66-4765,81 4764,8	4 947,47 (14/2) 6 6680.95 (14/2)	780.00 (2/1) 4581,28 (28/5)	Ranger Oil
H'me B'nds 68.87 68.87 68.71 68 Transport., 255.20 258.17 240.85 242	.52 65.98 66.65, 74.01 (9/1) .84 246.35 248.00 505.80 (8/2)	65.87 (29/6) 285.69 50	-	Credit Akti	ten (2/1/62)	68.45 } 8	87,88 67.87	59_48 (7/1)	97.43(11/4)	Reed Stenhs A 734 Rio Algem 2814 Royal Bank 3978
Utilities 195.24 108.80 106.97 106	.77 105.65 105.58, 113.46 (18/2)	95,04 ¹ 15	3,32 10,52 B 4/89) (28/4/42) -	Selgian SE ENMARK			6.57 94,82 94,47	105,75 (11/2)	80.14 (E1/6)	Sceptre Res 1034 Szegram
000's; 27,560 26,889 32,770'38,1		. - } ·	5	RANCE CAC Gener	al (28/12/8	 	8,85 78.08 78,36 04.5 103.90 103.60	96,74 (2/1) 117,80 (22/8)	74.78 (5/5) 87.1 (8/1)	Teck B
Ind. div. yield %		or. 5 Year	ago (approx	nd Tendar	10e (28/12/	79) 89,2 10	04.5 103.90 103.80 00.0 109.20 98.50	·	86,60 (6/1)	Thomson News A 15 Toronta Dom Bk. 25k Transcan Pipe 22 Trans Moto Oll A. 11
STANDARD AND POORS			5.78	AZ-Aktien Ommerzb			23.01 220.82 220.0 702.4 696.1 691.9		212,78 (28/5) 687.8 (27/8)	Walker(Hrm)C. H. — Wartior Res 4.00
Apr. Apr. Apr. A	pr. Apr. Apr. Hig!	jj -	A	iolland Inp-CBS G Inp-CBS in	eneral (19 idust, (197		81.9 81.40 82.2 65.1 64.96 66.1		74.0 (97/8) 58.2 (28/8)	Weston (Geo) 23
tindust'is 111,64 112,44 115,06 11	8.68 115,29 115,45 154,4 (15/2	7 111,09 18) (27/6) (11/		IONG KON		TIRAN SAN 10	c) 822.88 814.7	007 17 /75/0	758.92 (1960)	

a		19	28	Since (a"filqm		Apr. 22	Apr. 21	Apr. 18	Apr.	ļu.	igh	ما ا	w
Apr. 15	Apr. 14	High	Low	High	Low	AUSTRALIA Sydney All Ord. (1886/68)	777.90	778.71	785.10	782.34	947.47	T4/20	780.00	(2/1)
83.86	784,90	905,84	759,13		41.22	Metals &Mints (1956;58)	4685.81	4697.66	4765,81	4764,88	6880.95	(14/2)	4581,28	
	64.66 248.00	74.01	(21/4) 65.87 (28/8) 283.69	(11/76) — 305.88	(2/7/82)	AUSTRIA Credit Aktien (2/1/52)	68.45	98.24	67,99	67.87	59_48	(7/1)	67.43(T1/4)
	105.68	(8/2)	285,69 (27/5) 95,04 (27/5)	(8/2/80) 163,52	12,23 (8/7/32) 10,52 (28/4/42)	BELGIUM Belgian SE (61/12/65)	55,61	95,37	94,62	94,47	105,75	(11/2)	80.14	(61/6)
8,670	27,878	- ;		— :	. — 	DENMARK Copenhagen SE (1/1/78)	78,81	78,85	78.08	79,35	86,74	(2/1)	74,78	(212)
	pr. 11	Apr	. 3 IV	fear ago	aper	FRANCE CAC General (28/12/81) Ind Tendance (28/12/79)	105.5 89,2	104,5 100,0	108,90 109,20	103,68 98,50	117,80 (189,78 (22/8) 15/2)	97.1 (3 96,60 (ጠ 8/1)
	6,58	6.3	 ;-		78	GERMANY FAZ-Aktien (\$1/12/58) Commerzbank(Dec. 1853	220,54 894,2	225.01 702.4		220.06 681.90	238.88 749.2		212_73 687.0	
	,	, .	1000 m			HOLLAND	 -		<u>-</u>			,—:=T		7 ISI
Apr. 15	_;	High	Low	-; — <u> </u>	low Low	ANP-CBS General (1970) ANP-CBS Indust, (1879)	81.9 65.0	81.9 65,1			87,0 (68,2 (74.0 58.2	(27/8) (28/8)
	29 115,4 65 109,8	(15/2) 4 118.44	(27/5) 98.22	(11/1/76) 125,85	(60/8/82 4.40	HONG KONG Hang Seng Benk(31/7/84)	840,12	(c)	822.88	814.71	863.17 (16(2)	758.92	(19/6)
) (11/1/7 5)	_	ITALY Banca Comm. Ital (1972)	84,38	84.24	95.57	88 79	55. 51 (2	S/2)	85,11 (2/1)
A\$	or. 9	Apr.	—- <u> </u> -	est ago (JAPAN			i					
 ,	5,74 7,14	7,19	<u>-</u> _	5.10 8.60		Dow Average (16/5/48)					6838.98 (1 472,65 (1			(10/5)
i—-	1,64	12.24		9,04		NORWAY	<u> </u>		i	j		 1		— I
				es and Fa	ulis	Osio SE (1/1/72)	119.22	119,50	121,05	121,79	144,70 (14/2)	170.12 (2	8/6)
_ - le	MIGS T	raded	Apr. 2	1 Apr. 18 1,878		SINGAPORE Straits Times (1996)	467,78	467.46	457,86	469.40	504,11 (6/5)	429.75 (8)	n
Ri - Fa Ui No	ises alis nchang ew Hig	ged	465 1,042 397 2	789 721 368 7	551 893 366 7	SOUTH AFRICA Gold (1958) Industrial (1958)	(u) (W)	525.4 489,2	527.1 492.4	516.0 492.4	604.3 (8 517,2 (1		505.0 (456.0 (29)	
Ñ	ew Lov	Y8	89	40	6i	SPAIN			_					
Apr.	Apr.		1	1980		Madrid SE (28/12/75)	97.51	(c)	98.14	98,88	193,29 (2) 	1/2)	97.61 (2	2/81
17	16		igh 0 (29/2)	Lo	i	SWEDEN Jacobson & P. (1:1,58)	(u)	367,386	588,95	569,57	385,36 (\$/ 2)	554,72	m,
13,16	\$17.15 	578,90	0 (29/2)	299,90	(27/8)	SWITZERLAND Swiss Bank Cp. (61/12/58	284,3	285,6	284,80	285,50	ā17 . 9 (1	11/2)	284,3 (22,	140
	1817.6		(29/2)	1702.5	(27/8)	WORLD Capital Intl. (1/1/76)		104 7	194 -	<u> </u>	145.8 (1)	2,00	190 5	<u>. </u>
ACT.	IAE 2	rocks			Change		<u> </u>	129,5	124.9	120,0 }	149,0 (1	e(4)	128,5 (27	(e)
	Mond	ay,	Stock	s Closing	day ·	Base values of all h								
		···	360,30	0 331/2	+ %	and Poors-10; and Toronto-1,000; the last named based on 1975. † Excluding							auding	
	lobii . m. Tei.	& Tel,	344.30	10 50Š	+2	bonds. # 400 Industrials. § 400 Industrials plus 40 Utilities, 40 Figancials and						a and		
Sq	quibb	el Pet.	.322,50	0 30%	+ 3,	73"				1				- 1
					ŕ	الخبأرا	ŧ.	_	_	H	_	. —		

99.80 160.55 187.05 101.57 109.68 109.64

10,48

67.77 | 55,80 (18/2) (27/8)

Ind. P/E Ratio

66,78.57,21.57,45.58,95, 67.77

Stocks traded 651,800

Apr. Apr. 16

TORONTO Composite 1784.5 1807.0 1881.7 1817.8 2182.6 (29/2) 1702.5 (27/3)

356,14 538,62 539,65 545,72 425,50 (29,2) 511,52 515,84 515,16 517,15 578,90 (29,2)

ARBED Bang Ind a Lux ... Bokaert B....... Ciment CBR and Poors-10; and Toronto-1,000; the last named based on 1975. † Excluding

Early Dow rally of 20 points

A SHARP and widespread recovery took place yescterday shares (1.66m).

Canada

The Commerce bank index shed 8.2 to 694.2.

Stores were the only sector

The Dow Jones Industrial Most sectors also picked up
well on Canadian markets early Average, which declined to a twoyear los on Monday, rebounded The Toronto Composite Index 20.05 to 779.18 at 1 pm yester regained 24.3 to 1,808.8 at noon day. The NYSE All Common in The Oil and Gas index rose 115.6 day. The NYSE All Common in the Oil and Gas index rose 112.0 dex recouped \$1.26 at \$57.99, to 3,973.2. Golds 20.6 to 2,694.9 while rises outpaced falls by nearly a six-to-one ratio. Trading volume welled to 32.42m shares 298.85. from the previous day's 1 pm figure of 16.69m.

Analysts said the market was ripe for a technical rally following six consectutive sessions of falling prices that knocked 32

Also, news that consumer price increases in March did not accelerate from the 1.4 per cent rate of increase for both January and February bolstered senti-ment. Federal Reserve Board chairman Volcker said on Monday night that he expects a few more months of big increases in con-sumer prices, but that the infla-tion rate should decline appreci-ably late in the year. Recently - depressed General

Recently-depressed General Motors gained 1½ to \$40½ and Ford Motor 1½ to \$20½. Raytheon rose 3½ to \$67½, Boeing 1½ to \$35½, Asarco 1½ to \$32½, Union Pactific 3½ to \$74½. IBM 1½ to \$52½, Honeywell 4½ to \$71½, International Paper 2½ to \$33½, Walt Disney 1½ to \$44½ and McDonald's \$1 to \$41½.

earnings, put on { to \$34} in active trading. Among other Oil and Oil Service issues, Superior Oil jumped \$5 to \$137, California Standard 2} to \$681, Hughes Tool 51 to \$583 and Schlumberger 21 to \$105.

THE AMERICAN SE Market Value Index climbed 7.36 to

Closing prices for North

America were not available for this edition.

Canada

yesterday in a fairly active trade.

Tokyo

Shares tended to decline in fairly active dealings with Oils leading the way following the points off the Dow Jones Indus-trial Average.

suspension of Iranian oil ship-ments to Japan. The Nikkei-Dow Jones Average receded 11.66 to 6799.01. Volume 320m shares

(350m).
The downtrend was curbed towards the close after the Tokyo foreign exchange market reacted calmly to the suspension of Iranian oli shipments. However, Nippon Oil lost Y40

However, Nippon Oil lost Y40 to Y2380. Telkoku Oil Y30 te Y1,360 and Maruzen Oil Y26 to Y438. In contrast, Coals were sharply higher in anticipation of increased demand for the fuel, Mitsui Mining rose Y52 to Y895, Matshushita Kosan Y54 to Y830 and Mitsui Coal Y17 to Y378. Recently-selected large-capital issues lost ground on profit-taking national Paper 2½ to \$33½, Walt
Disney 1½ to \$44½ and
McDonald's \$1 to \$41½.

Texaco, which reported sharply higher first-quarter net margin trading controls for the

three stocks with effect from yesterday.

A few Light Electricals continued to find favour, Sony adding Y50 at Y1,980 and Pioneer Electronic Y30 at Y1,800.

Germany

Lacking the recent foreign buying interest and unsettled by a downturn in the Domestic port group, reported a net profit despite good prospects forecast mainly reverted to an easier to March 31 and announced a industrials retreated over a course yesterday in light trading, in contrast to the recent terms and rose 8 cents to A\$2.40.

to produce some noticeable gains among the majors. Karstadi rose DM 5.50 and Kanfhof DM 3, but Horten lost DM 2.50 and Necker-

quarter point can in band and market gave way by about the statistic dealers said to the solution to the solution of the solution to the solution of the solut stock yesterday nonimally valued at DM 18.2m. Mark-denominated Foreign Loans were steady to firmer.

Australia

Markets, apart from Oils, turned in another slack performance, with only a handful of special situations providing some light relief.

The oil flow at the Cuttanirie No. 1 well in South Australia's Cooper Basin breathed new life

News of a 170 barrels per day test flow pushed Vamgas 30 cents higher to A\$4.10 and Santos 8 cents firmer to A\$7.98; while heavily-traded Woodside put on 5 cents more to A\$2.20. Oil with one-for-one bound leader BHP gained a net 5 cents the end of the week at A\$11.95, after trading as low.

into the Oil boards after a slow

as A\$11.75 as A\$11.75.
On the Mining Posts, Tins and Beach Sands held up all day, but Golds, Silvers and Base Metals were depressed by the gloomy. commodities markets in London

TNT, the Sydney-based trans-

down over a wide front in a thin

Horten lost DM 2.50 and Necker oversight weakness on Wall mann DM 2. Street the weakness on Wall mann DM 2. Street the support in Electricals, Brown Bovert entities and The unionnecement receded DM 6.90 in a narrow of a guarter-point cut in base market. Deutsche Babeuck led rate is 12 per cent by a second Engineerings down with a fall tank. Cle strangeter, of the of DM 5.50, while among Berais. Edinguid de Rothstehlid group. Degussa and Melalgesellschaft following an identical cut by lost DM 3 aniece.

mixed.
ESF-Aquitaine, which forecast production of 15m tonnes a year at its Congo field at Likoula shed FFF 18 to FFF 1230.

Hong Kong

Acter Monday's holid closure the market open strong, the market opened strongly in the wake of a firm performance in London over night. There followed good support throughout the session and most shares closed at their level of the day. The Hang Seng lander advanced 17 26 to \$20.12

Among Properties, Cheene King rose HKS 110 to HKS 2570 on active buying sheat dividend er the 37 cents find dividend with one-for-one bonus issue at

Johannesburg

Gold shares eased afresh across the board in active trading in ine board in sective training in line with a lower Buillion price. Heavyweight counters showed losses ranging to R3, as in the case of Durban Deep, R25.00. Randfoutein lost R2 to R69

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CANADA			BELGIUM (co	ntinuec	1)	Lugare			AUSTRALIA				inued)	.,
VALIANA		_	April 22	Price	+0	HOLLAND			April 22	Prior	+ or	April 22	Price	
Stock	April 21	April 18	Petrofina) +5	- April 22	Price Fig.	+ 97		4.30	12	- 	-	+
Abitibi	184	184	Royale Belge Soc Gen Bang .	5.500) +10	ACF Holding		+0,5	- Acrow Aust	1.00		Kubota Kumagai Kyoto Ceramic	340 3.100	- 4 80
i Agnico Esgis	104	10%	I SOC GAD PAIDA		J J	! Ahoid	l66.3#	i I —1.2	Ampoi Pet		0.0	14 Lion	355	- 3 ~
Alcan Alumn Algoma Steel	2678 29	2754 3158	I Sofina	8.84) I +0	AKZO	_ 24.4	+0-3			I	Maeda Cons	452 980	
Asbestos	. 3134	3119	Solvay Traction Elect.	2,500	5 - 45	1 AMEY	98.8	+0.8	Aust Cons Ind	2.00		I Marscheol	385	
Bk Montreal Bk Nova Scotia	233g 241g	2514	UCB Union Miniere	1.378	3 -82 1 -6	AMRO	65,1	+1.3	Aust Guarant Aust Nat Inds		+0.5	Marudai	547 600	
Basic Resources.		121	Vieille Mont	1.368	i	Bos Kalis	90.8	1 -62	. Aust Paper] î.58	-8,0	2 i Matsushita	679	
Ball Canada	. 101.		1	Z' Z'		Bos Kalls	62.6	-0.8	Aust Paper Bamboo Creek.	2.88		M'ta Elec Work		
Bell Canada Bow Valley	39	19% 40¼	DENMARK			Elsevier	. 25,7 . 211	+2	Bank NSW Blue Metal			2 Mibishi Bank Li Mibishi Gorp	688	78
BP Canada	40	40.	1	1	1	1 Ell(((Manana))) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	4.37,5	1 + 14.7	7 BORG HIGGS	1,5U	-0:0	M'bish: Elec M'bishi Ri Est	191 365	in instance
Brascan A	J 75e	241g 71g	April 22	Price		Euro Com Tst	-	[: +3	Bi ville Copper	1_95x	cl +0.6	MHI	184	-3 -2 -4
B.C. Forest	23	2212	ľ	Krone	<u> </u>	Gist, Brocades Heineken	61.8	-0.4	Brambles inds	1.90	+0.0	f Mitsul Co	306.	1 -4
Cadillac Fairy Camilow Mines	1712	176g	Andelsbenken	124.5		Hoogovens	18.5	Ղ _ ö;։	BHP	_[2.90 _]11.9%	j—6.00 #. ≠9.60	i Mitsui Ri Est Li Mitsukoshi		+1
Can Cement	12	124	Baitica Skand	,268,5	-6,5 -0,9		니 왔동	+1,8	. I Blitismick Off	J 0.16		"INGK Inculators:	461	` ā
Can NW Lands	1 17	1712	Burm & Wain Cop Handelsbak	104	1				Carlton & Utd.	5.16 L82	1 +0.7	. I Minnas Geldi	. I ROD .	+5
Can Packers	3112	3134	D Sukkerfab Danske Bank	_ 280,50	9	Naarden	. 16.4 114.8	+0.2	LCOURT COLL (Abree))	a: D.XQ	-	J Nimmon Ment	410	+1
Can Perm Mtg Can Trustco	118	1754 224	East Asiatic	110,75	5 <u>0.7</u>	Ned Cred Bank	58.8	+1	Do. Opts Cockburn Cenn	. 0.19	-0,0	Nippon Shinpan		4 0 +18
Can Imp Bank	1 24 Ֆ.	2458	East Asiatic Finansbanken	147,50	P	Ned Mid Bank	1210 E	+1.5	Coles (C. 1)	.I. T 85		Nippon Steel	. 131	+2
Cdn Inds.,	26	254	Forenede Brygg						I Comeico	1 4 75	سنتند ا	Nippon Sulsan	200	—1 —50
Con Pacific Con Pacific Inv	384	384 384	Forende Dampsi GNT Hide	170	+1.0	OGEM	1 11.X	− 0.1	Cons Gold	2.70	+0.8	Masan Motor	681	+1
Cdn Tire	25	25	GNT Hidg Nord Kabel Novo ind	.151,5	-0.6	Ommeren (Van)	- 40 C	+3.5	Conzine Rietin .	4.85		Wisshin Flour	.822	+8
Cherokee Res	105	104	Novo Ind Papirfabrikker	104	-1,2	Pakhoed	1 15.0	-0.4 +0.1	Crusader Oll	2.50 5.00	+0.20	Nisshin Steel	. 148 379	1 7 5
Chieftain	245 ₆	2612	Privatbanken	. 105,78	-0.2	Rin-Scheide	. 31.5	-0.6	I Duniop	. 0:78	_ -0.1 1	NYK	. 301	3
Cominco	521 ₂	53 143 ₂	Provinsbanken	1107 272 76	i	Rodamen	109.8		Elder Smith QM		،سبنت	Olympia	939	
Coseka Res	174	1718	Smidth (FL) S Berendsen Superios	364,60		Rollneo	137.5	-0.5	Endeavour Res.	0.87	+0.00			+30
Costain Daon Deve I	61 <u>2</u> 578	61 <u>2</u> 578	Superios	1107	0,2	Royal Durich	153	¥7.9	Gen Prop Trest. Hamersley	1.50				+8
Denison Mines	41	41	l			Royal Dutch Slavenburg's	221	+0.6			-0.05		362	! +1
Dome Mines Dome Petroleum	65 62	6612	FRANCE .			I FORTO PAC Mg	1148	+0.7	Hooker	0.99		Saklani Brafah	235 685	—3 +5
•			April 22	Price	يندا	Uniferer.	84.5	-0.6	Hocker ICI Aust Jennings Jimberiana Min Jones (D)	1 820	† ~	I Sharo	. 564	l ∓8
Dom Bridge Dom Foundries A	145g 311a	15 323g	2011	Frs-	+or	I AWISTOLK	129	-0.5 +0.7	Jimberiana Min.	2.00		Shiseldo	. 881 1.980	+1
Dom Stores	171g	174	Emprint 4/9 1973	1901	-13	VNU Volker-Stevin	60.6	+1,1	Kia Ora Gold	0.35	0,51	Staniey	436	100
Palcon Nickel A.	213 ₄ 98	224 100%	Emprunt 4/% 1978 Emprunt 7% 1978.	6,310	86	West Utr Bank	275	+3,2	Lennerd Oil	J 1,40		5'tomo Marine Taihei Dengyo	. 251 675	-5 +5
G4nstar	2512	2512	CNE 碳 Afrique Occid	3,830	-10 -5.5	l			Meekatharra Ms	. 3.00	-0.TS	Talsei Corp	. 201	·
Gt-West Life Gulf Canada	144 .	150 140	AIT LIQUIDE	509	+3	ITALY			Metramar Min Monarch Pet	0.27		Talsho Pharm	543 476	+2
Gulfstream Res Hawk Sid. Can Hollinger Ags. A.	5	5,25	Aquitaine Au Printemps	1,230	18 1.1	I TALL		_	Myer Emp		_O'8 <u>\$</u>	1.TDK	J1.920	+10
Hawk Sig. Can, Hollinger Ags. A	1524 3717	151 ₂ 381 ₄	BIC			April 22	Price	+ 01	Nat Bank	2,40		TeljinTelkoku Oil	. 140 1,360	
			Bouygues.,	617	_ĭ1		Lire	,	Nicholas Int	2.10 1.25		TBS	. 509 l	L +1
Hudson Bay Mng. Hudson's Bay	251g 255g	24 245	BSN Gervais Carrefour	897	-2 +1	ANIG.	8.50		North Bien Hill	2.08	~0,91	Tekio Marine	. 583	-3
Hudson's Bay do. Oil & Gas	10612	108	Club Mediter	330,1	_2	Assigur Gan	51 68A	140	Oziobridge Otter Expl	5.10 1.25	0.78	Tokyo Elect.Pwr. Tokyo Gas	795 112	6
Husky Oll IAC	1012	80 103	CSE (Thomson)	854 452 5	-1 -175	Bastori Fin	12.100 674	+890	Pancon	5,80	Wanter and	Tokyo Sanyo	1 675 I	-1
Imasco	4312	4354	CSF (Thomson) Cio Bancaire		+12,5 +1,1	Banca Com'le Bastogi Fin Fiat	1,959	+9	Pan Pacific Pioneer Conc.	0.17 1.73	-0.82	Toshibe	187	-1
Imp Oil A	247g	4014 2518	Cle Gen Eaux	399	5	Finalder,	78 2,205	<u>-</u> 4₀	Queen Marg't.G.	0,30	-0,42	Totto	405	+1
IndalInterpr. Pipe	1112	1178	CCF	165 f	+2	investitalicementiitalicementi	20,420	-225	Recidit & Coin	2,65	+0.03	Toyo Seikan Toyota Motor	{ 414 i	_1 3
	104	1718	Creusot Loire	E9 G I	-0.6	Montedison	176	+ I +8,5	\$161911 (H.C.)	7.98 1.10	0,02	Victof	1.460	+100
	28 { 256 ₈ }	2778	DNEL	34.3	-4,3 -0,1	Olivetti Pireili Co Pireili SpA	2,060	6 I	Southland Ming Sparges Expl	0.52	-0,07 -0,02	Yamaha Motor	670	-4 +6
Marks & Spenser		251 <u>2</u> 81 ₈	DNEL	620	+4	Pirelfi SpA	1,92U 684	+20 +7	Thos Natwide	2.40	+0.88	Yamszeid	485 [10
Massey Ferg	54	91a (Ferodo Gen. Occidental .		+0.5			40 I	Tooth	2.15 1.85		Yasuda Fire	271 ·	4
Meriand Explor	221	561 ₂ 225 ₈ 18	imetal	101		do. do. Priv.	617	.+17]	VILLE MINING	4,25	-0,65 -0,45	Yokugawa Boge.	, eu <u>s</u> 1	-15
Mittel Corp	175g	18	Lafarge L'Oreal	236,9 622	-1.6 -1			i	Vallant Consdt Waltons	0.70 6.58	-0.06	SINGAPORE		
Moore Corp Mountain State	3312 1056	33½ 10%	Legrand	1,560	+9	Monus		- 1	Western Mining	3,83	-0.08		1.5	
Nat.Soa Prods A.	121g		Matra	56.6 8.850	-250	NORWAY		I	Woodside Petrol. Woodworths	2,20 1,45	+0.86	April 28	Price	+01
	2368	2578	Michelin B	790 I	-16	April 23	Price		Wormald Inti	3.10	The spect of		┷	
	324	334	Moet-Hennessy ,.		+4		Croner	+ <u>or</u>	HONG KONG			Boustead Bild	4,42 3,14	O . 0\$
Oakwood Pet	394 164	175g	Moulinex	224.5	-1 +0,5		101.5	I	THE RUNG	- · ·· -	- / -	DBS	4.46m	+0.02
Omni	2.00 3.20	2,20	Pechinay	103,3	-1.1	Borregaard	86	<u></u>	April 22	Price	+ or	Fraser & Neave Haw Par	6,20 1,86	+0.86
Pan can Petrol	69	691a I	Pernod Ricard Perrier	227,5	+4 -3.6	Creditbank	113 87,5	0,5		H.K. S		increase shd	2,42	
Patino	31 471 ₂	31	Paugeot-Cit:	214	ĕ [Kosmos	476	45	Cheung Kong	25,7	+1.1	Malay Banking Malay Brew	8.65 4.68	0.10 0.04
Power Corp	135g	133	Pocialn		-11 -0,5	Norsk Hydro	514 130	-11.5 i	Essmo Prop Cosss Harbour	7.90 9.20		OCBC	8,05.	-0.06
Quebec Strgn		4	-	440				_ +2 _	Crotn Asia Nav.	K 20	-0.TB	Pan Elect	1.51	

SWEDEN

Alfa-Lavai ... ASEA Atlas Copeo Bofors Celiulosa

Fagersta
Graenges
Mo och Dom
Samb-Scanis
Sandvik
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SWITZERLAND

Oer-Buhrie Pretil Sandoz (Br). Sandoz (Pt Obs) Schindler (Pt Cts) Swisseair. Swiss Bank. Swiss Reinace. Swiss Volksbk. Union Bank. Winterthur

Price + or Dm. -

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Hoesch..... Holzmann (P)

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Mannesmann
Mercedes Hig
Mataligessell
Misses Buch

Muench Ruck...
Preussag
Rhoin West Elect
Rasenthal...
Semens
Siemans
Thyssen
Verta...
Veba...
Vesta...
Volkswagen

GERMANY

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4,00 1 1318 24

Price + ar

AUSTRIA

Perimocser...... Semperit...... Steyr Daimier..... Veltacher Mag....

BELGIUM/LUXEMBOURG

Price Fis.

2,125 5,400 1,950 970 2,195 5,580 3,320 2,420 1,008 2,605 1,700 5,500 5,500 5,420

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2,50 6,65 18.6 -0.2 -0.2 -0.86 -0.8 -0.23 -0.15 -0.15 -0,16 -0,55 -0,05 Financial Rand US\$0.924 (Discount of 251%)

-0.18 +0.05 +5.5 +0.70 +0.5 +0.49 +0.1

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Jardine Math...
New World Dev...
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April 22

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Price Frs.

2,620 258, 3,625 447 255, 765, 367 5,500 1,750 3,295, 2,050

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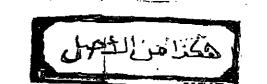
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المراجوني عمام



Fishermen threaten sanctions

By Richard Mooney

BRITISH FISHERMAN have threatened to adopt a policy of non-co-operation with the Gov-ernment unless their demands for protection against cut-priced

imports and higher support-prices are met.

Members of the National
Federation of Fishermen's Organisations, which represents mainly skipper-owners, is con-sidering an embargo on the prosidering an emoargo on the provision of information and
statistics to the Ministry of
Agriculture and Fisherles and
refusal to fill out fishing logs.
There has also been talk of
blockading fishing ports.
In a letter to Mr. Peter
Walker, the Agriculture and
Fisherles Minister, the federation said it wanted EEC support

Pisherles Minister, the support tion said it wanted EEC support to be doubled, a tax of at prices to be doubled, a tax of a least 15 per cent to be imposed on fish imports from outside the Community and restriction of EEC fish imports to 1978 levels.

"Low priced imports of fresh and frozen fish are dis-rupting all our efforts to secure the orderly marketing of our fish," the letter said.

Meanwhile the British Fishing

Federation, which represents the larger trawling companies, said its members had been angered by the sight of Continental fishermen shrugging their shoulders at accusations of illegal fishing on a television programme. This attitude is plainly echoed by their govern-

Topolitica.

DAPAS (25)

ments," a spokesman said. The programme, Granada's World in Action, showed large stacks of illegally-caught outlawed small-mesh nets at the berring, undersized cod and French port of Boulogue.

Forest report 'self-defeating'

By Our Commodities Editor FORECASTS of a world timber shortage could be dangerously self-defeating, Mr. Robin Howard, president of the Timber Trade Federation, warned in London yesterday.

Referring to the recent report "A forest strategy for the UK," by the Centre for Agricultural Strategy at Reading University, Mr. Howard said there were many excellent reasons for increasing afforestation in Britain, but to base a case on some hypothetical shortage of timber threatened in 20 years could be self-defeating.

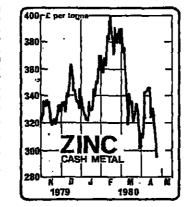
There was no more effective way of discouraging customers than to tell them there wouldn't have announced a set-aside pro-be any timber for them to use. gramme for grains to cut some reported maize offer price. than to tell them there wouldn't | have announced a set-aside pro-

European zinc producer price cut

BY JOHN EDWARDS, COMMODITIES EDITOR

A CUT in the European zinc producer price, from \$825 to \$76/ a tonne, was announced yesterday by Metallgesellschaft, a leading German smelter. It is expected to be followed by other zinm producers, who are already believed to be offering discounts on the official producer price, especially in the highly competitive West German market. The cut comes only a few

months after producers otok adavntage of the general metals boom earlier this year to put up their prices. Some put up their price in January, and the rest followed roughly a month later. But they have come under increasing com-petitive pressure following a decline in U.S. zinc prices and a sharp fall on the London Metal Exchange zinc market. where values are at the lowest point since August last year. Cash zine lost only £3.5 down at £396 a tonne, but this compares with a peak of £400 reached in February



Zinc prices, and demand, were artificially boosted during the general rise in metals earlier this year when consumers were persuaded to build up stocks as speculators helped force values higher. Subsequently with the decline in speculative activity, and the rise in interest rates, consumers have been cutting back stock levels again.

Quick end to embargo unlikely

inconceivable that President There was little congressional ing up in Soviet livestock Carter could call off the grain or farm organisation support for statistics. Inventory gains during

a national grain board, he told

to see an end to the embargo the meeting. He said he did not cattle and poultry were the

ment of an international food

reserve to insulate more of the

surplus government stocks from

WEAKNESS in the present

could be better tackled by

changing the method of world

price assessment than by intro-

ducing a single feed grain levy.

The authority was comment-

ing on EEC Commission pro-

posals to replace the current

system of individual feed grain

levies with a single levy, calculated on the difference between

the maize threshold price and

either the lowest reported feed

The net effect of the U.S. Soviets had planned,

EEC feed grain levy criticised

EEC feed grain levy system levy would not necessarily en-

U.S. SENATE House Agricul-ture Committee Chairman "The U.S. Government is Thomas Foley said he saw no quick resumption of normal grain trade with the USSR. object," he said. But he saw no

A meeting of newspaper farm need for a soybean set-aside pro-

unless the Soviets leave support a heavy interventionist Afghanistan." he said, adding it would be difficult for Carter or Mr. Foley advocated establish-

editors was told that it was gramme this year.

supported the embargo when the market place.

There was no way of knowing low much of the drop in the HGCA reported.

The authority was

Department

embargo. "It is hard for me

any other administration to

reverse the embargo.

Mr. Foley said he had not

President Carter sought his

opinion before the decision was

announced.
Mr. Foley cautioned farmers

against blaming the embargo

for all their financial problems.

We need to focus on the

general problems of farming

rather than solely on the embargo. Agriculture was in

some difficulty before the embargo," he said.

to the embargo since the U.S.

(USDA) had already forecast a

Mr. Foley said the Government

should have acted faster to offset

the embargo effects and should

decrease of \$20m this year.

buying pattern will return to soon and were hoping to avoid a producer price cut in the meantime. It is claimed supply and demand are in better balance without the huge surplus stocks that so depressed prices previously.

Since the bulk of zinc out-side North America is sold at the European producer price, the move by Metaligesellschaft represents a setback for mining companies and smelters.

However, it is not unexpected since demand for zinc has been generally sluggish nas been generally suggish with its two main outlets—galvanised steel and diseasting—both under pressure. Prospects for zinc diseasting are looking particularly gloomy with the cuthacks in an argumentary allied with a car production, allied with a general move away from zinc in favour of lighter materials as part of the overall drive towards reducing petrol con-

Ironically, there is a scarcity of zine concentrates, required

'Union 7m tonnes short of the

37.5m tonnes it had expected to

import between July 1979 and

this June, an USDA report has

The supply shortfall is show-

the first quarter of this year for

smallest in years and hog num-

bers declined for the first time

weights. Soviet meat production

will probably decline in 1980

rather than increase as the

The authority said a single

courage traders to buy the

cheapest feed grain available

of EEC feed grain imports go

to human and industrial pro-cessors, who unlike feed manufacturers, cannot readily

It added both the proposed

systems at current prices would

imply larger import levies for basic grains, which would be

reflected in higher import levies on processed products and also

in some higher export refunds

on cerela processed products.

substitute between grains.

cause a substantial proportion

Due to declining slaughter

in several years.

by smelters, at present because of worldwide mine cutbacks. Smelters margins are being sequeezed by having to pay firm prices for their raw materials (concentrates) while being forced to accept de-pressed prices for their finished product (zinc metal). Hence the move to lower the base price.

Other metals were generally depresed yesterday but rallied in afternoon trading following the recovery in gold. Three months lead, for example, traded below £400 for the first time since the end of 1978 before rallying to close only £2 down at £409.5 a tonne. Three months copper wirebars fell below £900 for the first time since August last year, but also recovered to close £8.75 down on the previous day at £912.5 a tonne.

● The New York Commodity Exchange (Comex) announced yesterday it is reducing margin requirements for gold, silver and copper futures.

Rumours boost sugar

market

A REPORT that the USSR was negotiating to buy Philippines sugar boosted values on the world market yesterday. The August futures position, which fell £11 yesterday, ended the day £5.25 up at £265.625 a tonne. Dealers said the rise was also

encouraged by rumours that Poland had oversold its crop by around 100,000 tonnes and that Iran may soon be in the market for about 150,000 tonnes. On the cocoa market, meanwhile, the nine-day price decline was halted with the July position rising £4 to £1,270.5 a

tonne. But the price was still about £140 below the level ruling a fortnight ago. The upturn came inspite of reports from dealers that Ghana

had sold beans and cocoa butter to the market. Ghana's emergence as a seller came after the market had fallen to new life-ofcontract lows, they said. But a late technical recovery

based on the tone in New York. lifted prices near the close.

EEC FARMING

Britain warms to national aid plan

BY JOHN CHERRINGTON, AGRICULTURE CORRESPONDENT

SIGNS THAT the Government is seriously considering the although operating in sugar, idea of direct national aids to had done nothing to reduce assist some agricultural sectors output and were in any case control the cost of the EEC's

Common Agricultural Policy.

Mr. Peter Walker, the Agriculture Minister, has hinted at the possibility of using national financing within the CAP, but never in such definite terms as used by Mr. Buchanan-Smith. Speaking in Aberdeen, Mr. Buchanan-Smith discarded alternatives suggestions for controlling EEC agricultural expenditure. A price freeze, he indicated, would do no more than stimulate farmers to pro-

accompanied by a rise in prices, aids would make it possible to

quota systems, he added, although operating in sugar, assist some agricultural sections became apparent at the weekend when Mr. Alick Buchanansmith, Minister of State at the
Ministry of Agriculture,
claimed this was the only way to
output nor had those for consumption.

There was nothing non-com-munautaire about an element national financing. insisted.

He gave as an example grant aid for capital investment and help for less favoured areas. There is also the British beef premium scheme to which the EEC contributes 25 per cent of the expenditure.

National aid to production would make some governments tance are, for the moment, duce more to reduce their unit vulnerable to pressure from negligible, as too many of our costs: as in fact is happening farming interests, and he was European partners gain connot in favour in extending the siderably from the CAP. Even principle. But national farming those who get no direct with milk at the moment.

A co-responsibility levy not in favour in extending the principle. But national farming

There were several ways of working at national financing. The simplest would involve member states paying a proportion of the total costs arising under the guarantee section of the budget for all price support in the Community. This would make Ministers of Agriculture responsible to their own govern-ments for a proportion of the costs of their annual price fixing, as against the present system of loading the whole cost on the community budget.

There is no doubt that Mr. Buchanan-Smith's proposal is the first move in an attempt to negotiate a reform of the CAP. probably in conjunction with a reduction in the British contribution. But the chances of accepbudgetary advantage, such as would raise costs to the consumer and probably cause more costs of the Common Agricultural Policy.

Germany, would have to pay out costs of the Common Agricultural producers under national aids.

World commodity fund hopes brighter as delegates resolve differences

BY BRIJ KHINDARIA IN GENEVA

commodity price finance stabilisation schemes has moved considerably closer to establishment following the latest round of negotiations here. In spite of radical differences

between Third World and indus- gate commented. trialised countries about how the fund should be financed and operated, the outlook for final agreement at a conference in Geneva from June 5-18 has brightened significantly.

Expert level talks here during the last two weeks failed to produce any definite conclusions, but they reduced the number of points under dispute by nearly

Some important conceptual differences remain which might

seem more willing to make a terms and should itself borrow big effort to reach agreement— from international money the political will is there—we markets to augment its only ned to find the right formu-resources when needed. lations," one Third World dele-

Speaking for the industrialcountries, ambassador, Stephane Hessel, told the closing session of an itermediary between needy negotiations for the fund that ICAs and world money warkets 'a large spirit of compromise' was needed to ensure success at the June conference.

The main differences between Third World and industrialised countries concern the fund's World argues that the fund

THE \$750m common fund to among industrialised countries. (ICAs). It should lend to needy "The industrialised countries ICAs on better than commercial Governments should underwrite the fund's liabilities so that it might get a high credit rating.

> Industrialised countries say the fund should be no more than or lending institutions, including private banks and international monetary bodies. It should not act as a bank.

Another important dispute concerns the voting methods to basic characteristics: the Third be used by the fund's managing committee to take decisions. still torpedo the June conshould be a lending institution Differences also remain on ference. However Third World financied directly by govern-technical mafters concerning delegates have been encouraged ments and participating Intertune fund's composition and by a changed negotiating style national Commodity Agreements financial operations.

Sugar—No. 11: May 22.60-22.75 (23,65), July 23.26 (24.25), Sept. 23.91, Oct. 24.20-24.30, Jan. 25.00, March 25.80-25.85, May 25.95-28.00, July 26.30-

26.35, Feb. —. Sales: 9,600. Tin—790.00-805.00 asked (795.00-

90.00) • Wheat—SCWRS 13.2 per cent pro-en content cit St. Lawrence 208.93

All cents per pound ex-warehouse unless otherwise stated. *\$ per troy ounce. †\$ Cents per fo-lb bushel. †\$ Cents per 56-lb bushel. †\$ Cents per 60-lb bushel. || \$ per short ton 12,000 lbs) \$\$\$ \$Can, per metric ton. \$\$\$ per 1,000 sq. feet. \$\$\$\$ Cents per dozen.

CHICAGO, April 21

CHICAGO, April 21.
Lard—Chicago lease 18.75 (same).
New York prime steam 20.50.
Live Cattle—June 54.32 (62.82). Aug.
64.70 (63.20), Oct. 64.20.64.00, Dec.
64.80-64.80, Jan. 65.00, Feb. 65.80-65.60.
Live Hogs—June 35.12 (33.62), July
36.55 (35.05). Aug. 36.20, Oct. 36.8238.85, Dec. 39.80, Feb. 42.50, April
41.50, June 44.55.
‡\$Maize—May 269-2681, (265%), July
281%-281% (278%), Sept. 290%-291, Dec.
296-2951, March 307%-307, May 3131%3137.

3131; Pork Bellies—May 32.80 (30.60), July 34.07 (32.07), Aug. 33.80,33.90, Feb. 47.85-47.90, March 47.90, May 48.20,

July —, Aug. —. Silver—April 1334.0-1335.0 (1422.0),

Oct. 1471.0, Dec. 1513.0, Feb. 1534.0, Aug. 1422.0), Oct. 1471.0, Dec. 1513.0, Feb. 1554.0, April 1594.0, June 1634.0, Aug. 1674.0, Oct. 1714.0, Dec. 1754.0, Feb. 1793.0, April 1832.0, June 1871.0, Aug. 1910.0, Oct. 1948.0.

150yabbans—May 599-598 (592), Jyly 624-623 (616-1), Aug. 633-634, Sept. 641-), Nov. 656-656-2, Jan. 673, March 689-690, May 703.

| Soyabean Masi—May 165.2-165.3 (163.5), July 173.1.273.4 (171.4), Aug. 175.5-176.8, Sept. . 179.5-180.0, Oct. 181.5-182.5, Dec. 186.0, Jan. 187.5, March 193.5, May 195.0-186.0, July 197.0-198.0, Soyabean ...Oll — May 20.63-20.65 (20.43), July 21.23-21.25 (21.11), Aug. 12.30, Sept. 21.75, Oct. 22.00, Dec. 22.40-22.45, Jan. 22.65-22.60, March 23.35-23.60, May 23.30-23.40, July 23.45-23.60.

23 45-23.60

800.001

BRITISH COMMODITY MARKETS

BASE METALS COPPER—Easier again on the London Metal Exchange but well above the day's lowest level. Forward matal opened at E907, owing to renewed selling in overnight U.S. markets, and moved up to £914 on the pre-market following short covering and modest insh buying: However, in the morning ings and on the kerb the market came under heavy selling persours as long liquidation triggered stop-loss selling below the £900 level. Three months consequently dipped to £835 on the kerb. In the afternoon a rise in golds coupled with a higher than expected coupled with a higher than expected opening on Comex encouraged a strong rally with lorward metal finally £15 at the close. Turnover 17,800 tonnes.

3 3 3 3 882-4 -27.5 891-3 904-5 -31,7 912-3 883 -28 -Amalgamated Metal Trading reported at in the morning cash wirebers 200 - 100 -

CV 32.25

er Tru Sed

125.00

1 1 1 1 1 1 1

و او

207. Aeros: Wirebars three months £905. 6, 7, 85. 7, 10, 11, 12.5, 13, 14, 13.5, 14, 13, 12. Cathodes cash £857. 60. 80.5, mid May £870, three months £905. Kerbs: Wirebars three months £916. 15, 13, 13, 13, 13, 13, 13, 14, 15 13, 12, 10, 08, 13, 12, 13, 14, 15.

TIN-Lost ground. After opening at £7,500 forward metal came under heavy selling from one Commission House on the pre-market with the price falling to fr.650. A rally developed in the rings which took forward metal up to fr.650. In the afternoon profit-taking prompted renewed weakness and forward metal closed the late kerb at fr.520. Turnover 1,295 tonnes.

Tandard Cash...... 7595-605 -47.5 7540-50 -80
Za months 7580-5 -57.5 7535-40 -90
Settlem t 7605 -45 -
Strates E. \$2320 + 11
...... NewYork Morning: Standard cash £7,620, 10,

I.G. Index Limited 01-351 3466. Lamont Road, London SW10 0HS. Tax-free trading on commodity futures. The commodity futures market for the small investor.

CORAL INDEX: Close 434-439 (-5)

THE COMMODITY WORLD AT YOUR FINGERIPS COMPANY

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30. High Grade cash £7,570. Karbs: Standard three months £7,540, 30, 20. LEAD—Down following the fall in copper and also reflecting the producer price cut by Asarco. Forward metal opened at £400 and moved ahead to £400.5 as copper gained ground. However, a sharp decline in the latter brotteth pure harvestalling at lead with brough out heavy selling of load with forward motel falling to £395 on the morning kerb. In the afternoon the marker staged a relly with forward metal touching £409.5 prior to closing the late kerb at £403. Turnover 18,700

Cash....... 403.25 -21.5 411.5 5 months 402.5-5 -15.7 409.10 5 ment. 403.25 -21.7 4.8 ... 448 Mornini: cash \$403, three months Mornini: cash £403, titlee months £403, 4, 3. Kerba: cash £402, three months £403, 2, 1, 400, 389, 96. Afternoon: cash £408, three months £401, 4, 3, 2, 400, 1, 5, 6, 7, 9. Kerba: three months £409, 10, 07, 6, 5, 2, 3, 5,

price metals lost ground. In the sitermon the price moved narrowly before closing the late kerb at £309.5. [urnover 8,400 tonnes.]

ZINC Official - Unofficial -298-9 -11 295-8 -5.5 5 months; 307.5-8.5 -9.5 306-8 -5.25 299 -11 -37,5

Morning: cash £296, 98, three months Morning: cash £286, 88, three months £313, 14, 13, 12, 11, 10, 08, 5, 7, 8, Kerbs: three months £305, 5, 4, 8, 5, 8, 7, Kerbs: three months £307, 08, ALIMAINIUM—Barety changed on balance. Forward metal opened at £8' and eased to £807 in the morning before recovering strongly in the wake of fresh buying demand to close the late kerb at £821, after touching £821. Turnover 4,850 tonnés.

a.m. + or p.m. 1+or Unoffic'i

Morning: cash £856, 57, three months £318, 15, 10, 12, 14, 15, 18, 17. Karba: three months £817. Attampon: cash £863, 60, three months £822, 24, 23, 21. Kerbs: three months £823, 21.

NICKEL—Marginelly firmer. Forward metal held steady around £2.780 during the morning and moved up to £2.805 in the alternoon rings before easing to close the late kerb at £2.795. Turnover 342 tonnes.

NICKEL | 2665-85 -80 2700-10 -11.5 2770-5 -17.5 2805-6 +15.5

Moming: cash £2,680, three months £2,775, 80. Kerbs: three months £2,775, 80. Attarnoon: cash £2,710, three months £2,790, 2,800, 10, 05. Kerbs: three months £2,796.

Silver was fixed 31.85p an ounce lower for apot delivery in the London Builion + or L.M.E. !-SILVER

605.85p-81.8 616.5p +80 627.35p-84.8 639p +28. 627,35p-54,8 639p 650,00p-34,2 --695,00p-64,2 --

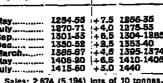
three months 67,560, 70, 75, 80, After-bullion market yesterday at £6.0535. West 93.80, W. Midlands 91.50, N. West noon: Standard cash £7,550, three U.S. equivalents of the fixing levels 92.70. Other milling wheat; W. Midmonths £7,580, 55, 50, 40, 20, 40, were: apot \$13.56, down 64c; three-lands 98.00, N. West 96.00. \$14.047. \$14.544, down 70.3c; and 12-month \$15.492, down 69.6c. The metal opened at £5.8-6.15 (\$13-13*4) and closed at £6-6.35 (\$13*1₂-14*₄).

LME—Turnover 199 (138) lots of 10,000 ags. Morning: three months 620, 25, 30, 25, 30, 33, 34. Kerbs: three months 633, 28. Afternoon: three months 640, 45, 40, 35, 40, 39. Kerbs:

COCOA

An undistinguished day saw futures trading within a £20 range and closing marginally higher than Monday evening. Physicals were again active with con-tinued offizite by consumers and rumoured awakening of producer interest, reports Gill and Duffus.

Yest'rdays + or Busine Close - Done



Sales: 2,674 (5,194) lots of 10 tonnes.

COFFEE

The initial weakness in Robustas was buted to attonget currency factors, orts Drexel Burnham Lambert. In reports Diexel Burnham Lamber. In mixed activity prices tended to ease slightly through the morning. The recent quiet trend continued in the sternoon with prices fluctuating in a narrow range and finishing with losses of £3.5.£10.0 on the day.

Yesterd'ys
Close or Business
Dona

E per tonne 1635-38--3.5 | 1641-32 1684-85--9.0 | 1689-81 1719-20--10-01724-18 1733-35--5.0 | 1739-31 1727-28 — 9.0 1730-27 1680-85 — 10.0 1685-80 1680-85 — 8.0 —

Sales: 2,883 (2,639) lots of 5 tonnes. ICS indicator prices for April 21 (U.S. cents per pound): Other Mild Arabicas 182.00 (182.67). Robustas ICA 1975 168.25 (sama); ICA 1988 166.25 (sama). Unwashed Arabicas 211.00 (sama). Comp. daily ICA 1968 188.50 (188.61).

GRAINS

LONDON GRAIN FUTURES—The market opened lower on old crops and values eased in good trading to close 65p lower on wheat and 40p lower on barley. Naw crops opened unchanged and again saw tessonable buying interest to close steady 5p-10p up on wheat and 10p-20p up on barley, reports Acil.

May. 93.50 -0.65 91.45 -0.40 Sept. 92.50 +0.19 90.30 +0.20 Nov. 96.25 +0.18 -94.25 +0.16 Jan. 100.05 +0.05 98.00 +0.10 Mar. 103.40 +0.05 101.40 +0.10

Business dono—Wheat May 34,00-33,95, Sept. 92,65-92,50, Nov. 96,35-96,15, Jan. 100,05-99,90, March 103,35-103,30, Seles, 301 lots of 100 tonnas. Barley: May 91,55-91,45, Sept. 90,25-90,05, Nov. 94,25-94,10, Jan. 97,90-97-90, March 101-30-101,30. Sales, 239 lots of 100 tonnas. IMPORTED — Wheat U.S. Dark Northern Spring No. 2 14 per cent May IMPORTED — Wheet U.S. Dark Northern Spring No. 2 14 per cent May 93.25. June 93.75. July 94.25 transshipment East Coast sellers. English Feed tob May 99 seller East Coast. Meiga: French 117. Mey 117.50 East. Coast. S. Airrican Yellow April/May 78.50. Barley: English Feed tob April 98. May 98.70. June 98.75. Bast Coast sellers. May 98. June 98.75 sald Feet

RUBBER The London physical market opened easier with good interest at lower levels, closing on a weeker note. Lewis and Peat reported a Melayaten godown price of 314 (318) cents a kg (buyer,

No. 1 Yest'rdays Pravious Business R.S.S. Close Close Done

at 5 tonnes.
Physical closing prices (buyer) were Spot 62.50p (63.75p). May 67.00p (67.76p), June 67.50p (68.75p). SOYABEAN MEAL

The London market opened around 70p higher on stronger cash markets, reports T. G. Roddick. The market remained strong most of the day until the final call when some profit taking was evident adding a little pressure

Business

Sales: 75 (62) lots of 100 tonnes. SUGAR

LONDON DAILY PRICE (raw sugar): 2240.00 (£243.00) a tonna cif for April-May-June shipment. White sugar daily May June shipment. White augar daily price was £250.000 (£252.00). Reports that the USSR was negotiating with the Philippines lifted prices some £7 above kerb levels during the opening call. Profit-taking pared the gains somewhat later in thin trading but by the and of the day prices were again back around the best, reports C. Czarnikow.

Sales: 5,211 (5,666) lots of 50 tonnes. Sales: 5,211 (5.665) lots of 50 tonnes. NUMBER 4 CONTRACT—Close (in order buyer, seller only. May 256.25, 256.50; Aug. 26.50, 267.50; Oct. 274.00, 276.00; Jan. 279.00, 282.00; March 286.50, 288.00; May 267.50, 288.00; Aug. 291.00, 282.00. Sales 608 (412). Tate and Lyla ex-refinery prica for granulated basis white augur was £321.7—(same) a tonne for home trade and £323.00 (£327.50) for export. International Sugar Agreement (U.S. International Sugar Agreement (U.S. cents par pound fob and stowed Caribbean port). Prices for April 21: Delly price 22.04 (22.10), 15-day average 20.32 (20.04).

COTTON

LIVERPOOL—Spot and shipment seles amounted to 91 tonnes, bringing the total for the week so far to 114 tonnes. Restricted operations continued, with only scattered support. Most of the usual grades were in fair request, with African and Middle Eastern qualities streeting most detailed.

WOOL FUTURES LONDON NEW ZEALAND CROSS-BREDS—Close (in order buyer, seller, business, sales). New Zealand canta per kilo. May 360, 367, nil, nil; Aug. seilers, May 98, June 98.75 pald East Coast. Rest unquoted, HGCA—Locational ex-ferm spot barpricas. Feed berley: S. East 92.80, S. per

PRICE CHANGES

April 22 + or Month 1980 - Month \$1650/1880.—30 \$1970/60

Piatin'mtr'y oz 2189-193 2189:193 Free mkt..... 2245,75 2189:193 Quioksil'veri... \$405:415 +3 \$400:415 Silver troy oz... 505,35p 31,85 969,35p Sales: 555 (568) at 15 tonnes, 49 (50)

ut (Phil). 5670:

Orains Barley Futures 290.30

u June. 2 May. t May-June. r April-May. x July. z indicator. § Buyer. ‡ Per 78 lb flesk.

375, 380, nil, nil; Oct. 375, 380, nil, nil; Dec. 375, 380, nil, nil; Jan. 375, 381, nil, nil; March 380, 388, 388, 1; May 382, 390, nil, nil; Aug. 385, 385, 390, 2; Oct. 385, 385, nil nil, Sales, 3.

SYDNEY GREASY WOOL—Close (in order harman contents have a series between contents and contents have a series and a series and a series a series and a series a series and a series and a series and a series a series and a series a ser order buyer, seller, business, sales Australian Cents per pound. May 440. 142.0. 445.0-440.0, 18: July 451.5. 452 442.0, 443.0-440.0, 18; July 457.5, 452.0, 480.0-448.0, 290; C0t. 453.5, 454.5, 451.0, 451.0, 244; Dec. 456.0, 460.0, 460.5, 455.0, 154; March 454.0, 466.0, 469.0, 463.0, 112; May 468.0, 469.0, 470.0-468.0, 26; July 470.0, 471.5, 472.0-470.0, 35; Oct. 474.0, 477.0, —, Sales, 877. JUTE

JUTE—April/May C and F Dundse: BWC IZ.18, BWD \$188, BTB £265, BTC £230, BTD £195. Answerp April/May: BWC .5475, BWD \$385, BTB \$578, BTC \$495, BTD \$435. Jute goods C and F Dundse April: 40 in 10 oz £14.75, 40 in 7.5 oz £11.50. B Twills £34.48,

SARTHFIELD—pance per pound.
Beef: Scorch killed sides 89.0 to 74.0;
Eire hindquerters 84.0 to 85.0. Jores
quarters 49.0 to 52.0. Veal: English, res
80.0 to 90.0; Dutch hinds and ends
100.0 to 110.0. Learnb: English small
(new season) 80.0 to 88.0. medium
74.0 to 82.0; Imported frozen: NZ pl
61.5 to 62.0, pm 69.5 to 60.0. Hoggets:
English 46.0 to 70.0. Pork: English,
under 100 16 40.0 to 48.0, 100-120 lb
39.0 to 47.0, 120-160 lb 38.0 to 44.0.
MEAT COMMISSION—Average latstock prices at representative markets
on April 22. GB—Cettle 84.850 per stock prices at representative markets on April 22. GB-Cattle 84.85p per kglw (-0.77). UK-Sheep 141.4p per kg estdow (-10.8). GB-Pigs 57.2p kgiw (-10.e). kg ésidew (-10.e). per kgiw (+0.7).

GRIMSBY FISH — Supply: good, emand: fair. Prices at ship's side (un-

AMERICAN MARKETS

NEW YORK, April 21. 1530.0, March 1570.0, May 1610.0, July PRECIOUS METALS were sharply lower on Commission House liquidation. Identity of the commission of Copper surrers a mater decline or adverse economic news. Senctions against Iran including suspension of sugar sales led to a bid sell-off. Cocos sugar sales lies to a oid sell-oit. Cooper and coffee markets retreated on very light volume on limited apeculative selling. Cotton closed sharply lower on fears of an economic recession. A major rally in wheat on reports of

Closing prices for North America were not available for this edition.

Chinese buying resulted in a closing rally in maize and soyabeans. Limit advances in the livestock complex resulted from higher cash markets, reported Heinold.

Cocos—May 123.55 (124.90), July 122.55 (123.65), Sept. 124.60, Dec. 128.15, March 128.68, May —, July —, 128.15, March 128.68, May —, July —, Sept. —. Seles: 2,128.
Coffee—" C " Contract: May 183.50-183.75 (183.80), July 192.50-192.00 (192.65), Sept. 198.75-199.10, Dec. 192.00-182.40, March 184.10-184.75, May 185.50-186.25, July 187.55-188.00, Sept. 190.00. Seles: 5,825. Copper-April 83.70 (87.40), May

Copper—April 83.70 (87.40), May 84.00-84.20 (87.80), June 85.40, July 86.60-86.70, Sept. 88.50, Dec. 90.10-90.00, Jan. 91.10, March 92.30, May 93.50, July 94.70, Sept. 95.90, Dec. 97.70, Jan. 98.30, Seles: 6.300, Cotton—No. 2: May 81.19 (83.19), July 77.84 (79.84), Oct. 74.60, Dec. 72.08-72.20, March 73.50, May 74.10-74.80, July 75.50-76.00, Oct. 77.50, Seles: 16.050, "Gold—April 486.0-488.0 (510.2), May 490.0, June 496.0.499.0, Aug. 509.7, Oct. 523.3, Dec. 537.3, Feb. 550.9, April 564.4, June 577.7, Aug. 591.0, Oct. 604.3, Dec. 617.6, Feb. 630.0, Sales: 21.000, May 18.50.0, Dec. 617.6, Feb. 630.0, Sales: 21.000, May 18.50.0, Dec. 617.6, Feb. 630.0, Sales: 21.000, May 18.50.0, May 28.50.0, Dec. 617.6, Feb. 630.0, Sales: 21.000, May 28.50.0, Sales: 21.000, May 28.50.0, Sales: 21.000, May 28.50.0, Sales: 21.000, May 28.50.0, Sales: 21.000, Sales: 21.0 . nge Juice-May 88.50 (89.25).

Orange Julice—May 88:50 (89.51), July 88,00-89.05 (90.00), Sept. 90.45-90.50, Nov. 91.10-91.25, Jan. 91.50, March 92.30-92.60, May 93.10-93.50, July 94,00-94.50, Sept. 94,50-95.00. Sales: 300. bes (round whites)—May 49.5-

abu. *Platinum—April 530.0-531.0 (573.0), May unquoted (unquoted), June unquoted, July 575.0, Oct. 601.5, Jan. 627.6, April 663.6, May unquoted. Sales: 635. Sales: 153. 48ilver—April 1325.0-1350.0 (1412.0), May 1385.0 (1415.0), June 1385.0, July 1407.0, Sept. 1448.0, Dec. 1510.0, Jan.

23 45-23.60 "Wheat-May 398-400"z (280"z). 402"z-404"z (389%). Sept. 417-418, 436-437, March 450, May 455"z. WINNIPEG, April 21--May 1 (111.20), July 113.50 (113.70), 111.60, Dec. 111.00, March 11 111.00. EUROPEAN MARKETS —44 per cent protein U.S. afi \$230, April \$225, May \$222, June \$223, June/ Sebt: \$225.50, Nov./March \$242 sellers, April \$25/225.50, May \$221.50 trade. Brazil Pelleta afi \$238, May \$227.50, ROTTERDAM, April 22. June \$230. July/Sept. \$233, Nov./March

Wheat—U.S. No. Two Red Winter June \$176, July \$175, Aug. \$176. U.S. No. Two Northern Spring 14 per cent April/May \$186, June \$188. July \$189, Aug. \$192. Rest unquoted.

Maize—Ail \$137.50, April \$133.75, May arrival \$134, May \$132.50. June \$136. July/Sept. \$141.50, Oct. Dec. \$146, Jan./March \$154.

Soyabeans—U.S. Two Yellow Gulfports afl \$258. April \$255.50, May \$254.50, June \$258.25, July \$261.25, Aug. \$265, Sept. \$262.25, Oct./Nov. \$270.75, Dec. \$276.75, Jan. \$280.75, Feb. \$285.50, March \$289 sellers. Soyameal

FINANCIAL TIMES pr. 21 Apr. 18; M'nth ago Year ago 279,66 281.92 299,91 269,38

Apr. 21 Apr. 18 M'nth ago Year ago

(December 31, 1931=100)

Spot ... 412.91416.41 426.46384.27 F'tur's 422.93426.41 436.62387.65 (Average 1924-25-26-100) REUTERS

(Base: September 18, 1931-100)

S251. PARIS, April 22.
Cocoa (FFr per 100 kilos). May 1,195/
1,200. July 1,245, Sept. 1,250/1,254, Dec. 1,276/1,285, March 1,295, May 1,305. Sales at call, 4.
Sugar (FFr per 100 kilos). July-2,390/
2,430. Aug. 2,470/2,475, Oct. 2,545/
2,550. Nov. 2,540/2,570. Dec. 2,610/
2,625, March 2,630/2,710. May 2,725/
2,740, July 2,730/2,780. Sales at call, 2. -DOW JONES Dow April April Month Year Jones 21 18 ago ago

INDICES

(Base: July 1, 1952-100)

Apr. 22 Apr. 21 M'nth ago Year ago 1686.9 1700.7 1742.8 1546. 0 1123,5 1132.6 | 1254.7 | 1044.6

processed) per stone: Shelf cod £4.00-£4.50, codlings £2.50-£3.50. Large heddock £3.60-£4.80. medium £3.30-£3.80. smell £1.80-£2.80, Large plaice £3.00, medium £3.00-£3.40, bast

£3.00-£4.50. Skinned dogfish (lar@s) £12.00. (medium) £10.00. Lamon soles (large) £8.50. (medium) £7.50. Rock-fish £2.30-£2.50. Rads £2.80-£3.20. Saight

FINANCIAL TIMES STOCK INDICES

Lack of follow-through support causes profit-taking Gilts lead fall but equity index down 6.8 at 434.3

First Declara. Last Account Dealings tions Dealings Day Mar. 24 Apr. 10 Apr. 11 Apr. 21 Apr. 14 Apr. 24 Apr. 25 May 6 Apr. 28 May 8 May 9 May 19

Stock markets turned easier yesterday. A lull in recent investment demand prompted Giltedged dealers to lower quotations and encouraged short-term operators to realise some of the profits made over the previous Opening easiness among equities was soon extended following the fall in Gilts and leading shares later came on offer from holders nervous about the U.S./Iran

again, interest in Government securities focussed on the new ultra-long Treasury 13½ per cent 2004-08 which momentarily traded at a slight discount before steadying to close a net 13 down at 201s, or a premium of only is on the £20-paid stock. Falls elsewhere among the longs extended to the same amount, virtually while the shorts sustained losses ranging to 16. Recoveries were attempted in both sectors but failed to hold until after the raflied by about \$, but the longs remained at the lower levels.

Suggestions that Monday's liquidation of City and International Trust's portfolio had taken too much out of the system were offered as an explanation for the equity setback. Institutional buyers were reported to have only small funds available for investment in equities and when jobbers showed a reluctance to take stock on to their books the result that leading industrials closed as much as eightpence

Partly owing to the overall lack-lustre market performlarge number of company statements was limited but Travis and Arnold, United Carriers and Furness Withy all moved higher on news items. Measuring the general uncertainty, the FT 30-share index progressively extended a loss of 1.8 at 10.00 am to one of 6.8 at the close of 434.3. For the first time in nine trading sessions, falls outnumbered rises yesterday in FT-quoted

Business in Traded improved slightly and 582 contracts were completed. This day's 448, and last week's daily

Insurances dull

Insurances succumbed to the duli market trend. The recently firm life issues lost ground with falls of around 4 seen in Hambro Life, 183p, Equity and Law, 224p, Legal and General, 163p, and Prudential, 183p. Among Composites, General Accident declined 6 to 238p and Eagle Star 5 to 182p. GRE relinquished 4 to 240p as did Phoenix, to 222p, while London United Investments cheapened 3 to 147p on further consideration of the second-half profits decline. In Lloyds brokers, Brentnall Beard lost a penny at 9p.

Sporadic offerings in an un-willing market left the major clearing banks around 5 lower at the close. Despite the settle-ment of the bank messengers' strike, NatWest lost that much to 325p. Lloyds also gave up 5 to 295p as did Midland, to 335p. Leading Breweries closed with moderate losses on light selling.
Allied, 734p, and Scottish and
Newcastle, 54p, both eased
around 2 while Whitbread, 145p. Bass, 227p, and Arthur Guinness, 87p, all shed 3. The Building sector displayed

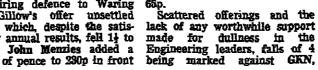
a notable firm feature in Travis and Arnold which advanced 22 issue. Timbers, the subject of considerable bid speculation recently, gave ground on profit-taking, Montague L. Meyer shed-ding 4 to 103p and Mallinson-Denny losing 3 to 72p, after 71p. Elsewhere, Ibstock Johnson eased a penny to 69p on the chairman's cautious remarks about short-term prospects. Among Contracting and Constructions, Wilson (Connolly) added 5 to a 1980 peak of 205p on the excellent annual results and capital proposals, while Aberdeen picked up a couple of pence to 88p on late demand.

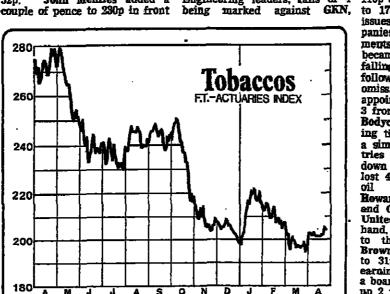
Brown and Jackson eased 2 to
175p; National Coal Board Pension Funds Nominees has acquired a 12.7 per cent stake in the company. In the leaders, Blue Circle eased 4 to 316p, awaiting today's preliminary

penny to 110p, while Revertex.
overshadowed by the poor
profits and the passing of a final
dividend, shed 3 for a two-day

average of 805. The more active an outstanding weak feature in issues included Racal, 166 Stores, falling 14 to 70p on trades, and Cons. Gold Fields, nervous selling ahead of tomorrow's preliminary results. The uninspiring defence to Waring 65p. and Gillow's offer unsettled

Maple, which, despite the satisfactory annual results, fell 11 to





d up at 244p. D-I-Y issues tended to lower levels with MFI 4 cheaper at 72p. Further concheaper at 72p. Further con-sideration of the full-year statement clipped 2 more from Executex, 36p, while Arthur Henriques, 50p, lost 4 of the previous day's gain of 16 which followed favourable weekend Press mention. The leaders remained quietly dull. Marks and Spencer came on offer at 87p, down 4, while GUS "A" gave up 6 at 386p, but House of Fraser, continuing to benefit from suggestions of a bid from Lourho, ended 4 to the good at

of Friday's preliminary results and dipped 15 to 150p.

Electricals trended easier, Racal reacting 5 to 243p and GEC 3 to 373p among the leaders. Elsewhere, Farnell closed a few pence lower at 302p after the preliminary figures, while the proposed rights issue Leading Chemicals turned in and profits and dividend fore-a lack-lustre performance with ICI falling 8 to 362p and Fisons losing 5 to 277p. Laporte. Muirhead, 168p, gave up 5 annual results today, shed a spiece, while adverse Press mention prompted a fall of a penny to 52p in Chloride. Among the occasional bright spots,

1980 244p. Vickers drifted off to close 3 cheaper at 114p awaiting tomorrow's preliminary Elsewhere, occasional moveere mainly against Wadkin fell to 70p holders. following the sharp fall in annual profits before rallying to close only a penny off on the day at 76p. Following the pre-

Delta closed a shade lower at 611p; the annual results are due today. Against the trend, favourable Press mention left Expanded Metal 2 dearer at 56p. Against the trend in quietly In Shoes, Style succumbed to increased profit-taking in front a couple of pence apiece to 78p and 94p respectively, the latter following favourable Press com-

vious day's flurry of buying,

Lack of interest and small selling to 172p left Trusthouse Forte 8 down at 172p and Grand Metropolitan a couple of pence o fiat 125p. Among other Hotels and Caterers, M. F. North shed annual profits, while lat offerings clipped 8 from De Vere to 210p.

Boots sold

Marked lower at the outset, the miscellaneous industrial leaders continued to retreat in tividend, shed 3 for a two-day renewed demand in an ex-sympathy with gilts and closed all of 6 to 29p. tremely thin market left Whole-with falls ranging to 7. Boots Grattan Warehouses provided sale Fittings 15 to the good at encountered selling and finished

demand and put on 3 more to poor interim figures, Glaxo remained friendless at 204p, down 6. Unilever cheapened 3 to 425p as did Turner and Newall, to 109p. Beecham softened 2 to 116p and Bowater eased a penny to 1780. Interest in secondary issues centred around those companies reporting trading statements. Charles Hill of Bristol became a prominent casualty, falling 8 to 50p, after 48p, following the final dividend omission and trading loss. Disappointing annual profits clipped 3 from Silentnight at 39p, while Bodycote International declined ing the results. Carlton Indussimilar amount to 77p followtries came on offer at 274p, down 6, and Cawoods, at 178p, lost 4 of the recent North Sea inspired improvement. Howard Tenens gave up 4 to 58p and Granada A lost 5 to 166p.

United Carriers, on the other hand, rose 6 to 136p in response to the increased profits and Brown Boveri Kent hardened 2 to 31p despite reduced annual earnings. Dull of late following a boardroom rift. Camrex picked up 2 to 33p. Elsewhere Applied Computers added 8 at 325p.

Boosey and Hawkes out on 10 for a two-day gain of 34 to 120p on vague bid rumours.

Pearson Longman featured Newspapers with a gain of 7 at 192p following the increased earnings and dividend. Elsewhere in publishing issues, Oxley fell 6 to 35p on the sharp setback in annual profits.

Selling among leading Properties did not amount to much and losses rarely exceeded a few pence. Elsewhere, Chesterfield added 3 to 308p, after 310p, on the preliminary results.

Oils above worst

Oil shares remained relatively lively and, after showing earlier dulines, rallied to close with only modest losses on balance. Senti-ment in the leaders was again unsettled by the Iranian situa-tion, but BP ended only 2 lower at 334p, after 330p, while Shell finished 4 cheaper at 344p, after Elsewhere, Ultramar reacted 8 to 596p and Siebens 5 to 655p, while Lasmo settled with-out alteration at 520p, after 515p. Burmah gave up 5 to 211p and Claff 10 to 350p.

Tozer, Kemsley and Milbourn produced the expected good full-year profits and rose 4 to 79p. Other Overseas Traders displayed modest losses. Falls of 3 were common to Lonrho, 87p. and S. and W. Berlsford, 143p, while

of today's results, while support that much lower at 186p; the pence to 123p in response to 645p, after 690p, while Lec preliminary results are due on lower annual earnings.

Refrigeration also encountered May 22. Down 30 last week on Trusts drifted a few pence

lower, but Financials were featured by a rise of 8 to 202p in S. Pearson on the better thanexpected results and increased

Golds lose ground

Mining markets came under pressure because of renewed and the uncertain trend in the bullion price. The latter was finally \$8 firmer, however, at \$505.50 after having been \$495.50 at the morning fixing.

South African Golds fell sharply at the outset following aggressive selling in overnight transatlantic markets which touched off fresh offerings in London. After the initial flurry of selling, the market steadied and managed a minor raily in the Nevertheless, the Gold Mines

index registered a fall of 14 points to 287.2—its lowest since the beginning of the month. Among the heavyweights, Randfontein suffered the biggest loss in giving up £2 to £274 following the chaoirman's forecast of lower production, while Free

State Geduld fell a point to £222 and Western Holdings 2 to £29. Financials mirrored the decline in Golds. General Mining fell to a 1980 low of 650p before closing 40 down on balance at 660p, while Angle American lost 25 to 525p and GFSA to £29.

London Financials remained depressed with weak base-metal prices and the decline in UK equities prompting persistent small sales. Rio Tinto-Zinc bore the brunt of the selling and dropped 10 to 355p. Diamonds showed De Beers 8

cheaper at a 1980 low of 368p while Platinums were featured by Impala which dropped 20 to Australians drifted in subdued

6 were seen in Bougainville, 95p,

87.23 67.35 67.13 67.02 66.75 66.84 77.00 Fixed Interest ... 484.5 . 1441.1 442.7 442.6 443.1 437.8 547.0 287.2 295.6 290.7 147.2 301.8 300.0 289.2 7.95 7.96 7.98 8.03 5.31 19.54 79.50 19.48 19.89 14.23 Ord. Div. Yield. 8,10 7,97 Earnings, Yld, % (full) P/E Ratio (net) (*), ... 6.22 6.25 5.28 6.22 9.01 6.11 6.20 16,748 18,378 16,505 16,950 16,643 18,179 Total bargains 10 am 438.3. 11 am 437.2. Noon 436.3. 1 pm 436.2

2 mm 435 8. 3 mm 435 4. Latest Index 01-246 8026

Wil-5.78. Basis 100 Govt. Secs. 15/10/28. Fixed Int. 1928. Redustriel God, /7/35. Gold Mines 12/9/55. SE Activity July-Dec. 1942.

HIGHS AND LOWS S.E. ACTIVITY

	19	180	Since Co	mpliat a		Apr.	Apr.
	High	Low	High "	Low	- The Use		- -
Govt. Seas. Fixed Int	89.25 (21/1) 69,61 (21/1)	63,85 (7/8) 64,70 (10/8)		(6/1/75): 50,53	—Daily Glit Edged judustriais Speculative. Totals	122,0	94.1 25.2
Ind. Ord Gold Mines	478,8 (18/2) 377,9 (29/2)	406.9 .(3/1) 265.5	558.6 (4/6/79) 442.3	49,4 (26/6/40) 43,5 (25/10 71)	5-day Av.ge. Gift Edged Industrials Speculative. Totals	98.6	.93.7 24.7

Couzine Riotinto, 240p. Holdings, 196p. Broken Hill, 137p. Golds were on offer wit

North Kalgorii and Poseidon both 6 down at 62p and 106p, tively, and the more spec lative Samantha Exploration 8 easier at 62p.

NEW HIGHS AND LOWS FOR 1980

NEW HIGHS (23)

LONDON TRADED OPTIONS

32

10

YoL.

Vol.

CHECIMALS (1) trading. Among the leading issues, losses ranging from 2 to

Yol.

= = = = = = = = =

1260

364p

316n

86p 342p

242°p

	(10000	···) /E.B)	
٠.,			
	Electrocomponents	ICALS (3) Wholesale Fi	ttingé
ħ.	Let Refrigeration	DS (1)	
	aridish Sugar -		
n_	BLESSERGE	RIALS (7) Prox. Laundr	les ·

NEW LOWS (72)

CHEMICALS (1) ELECTRICALS (1) HGINEERING (3)

FOODS (2) Rober INDUSTRIALS (11)
Metal Glazo
Comms. 'A' Hill (C.) of Bristol
(ted Eng. L. K. Ind.,
Industries NCR 49c '93-98

Truther Glandwicht

TEXTILES (2) OVERSEAS TRADERS TRAS (2)

S Pi

RISES AND FALLS

YESTERDAY

Corons. Dom. and			
Foreign Bonds	125	320	95
Financial and Prop.	46	200 . 28	_1
Platitations	3 7	100	. 1
Others	- 17 210	. 74 . 810.:	· 4 1,39
	<u>.</u>	· - ·	

FT-ACTUARIES SHARE INDICES

These Indices are the joint compilation of the Financial Times, the Institute of Actuaries and the Faculty of Actuaries

_	Tree A 20 7000 Mon, Fri, Thurs, Wed, Year										
	EQUITY GROUPS	T	1es., <i>P</i>	ipril 2	22, 196	80	April 21	April 18	I April	April 16	(approx.)
Fig	& SUB-SECTIONS ures in parentheses show number of stocks per section	lpdex No.	Day's Change %	Est. Earnings Yield % (Max.)	Yield %	(Net)	Index No.	Index No.	index	index No.	Index No.
1	CAPITAL GOODS(172)	238.29	-0.8	18.47	6.72	6.76	240.16	240.02			
2	Building Materials (28)	236.45		17.27	6.78	7.28	237.76	236.90			
3	Contracting, Construction(27)	356.23		26.82 13.37	6.92	454	356.21	357.51			426.69
4	Electricals (16)	622.07 285.27	-12 -03	13.37 23.01	4.05 9.05	9.75 5.71	629.40 286.24	631.24 284.67			672.71 415.97
6	Mechanical Engineering (74)	285.27 158.92		23.01	8.33	5.72	160.13	254.67 159.96			
8	Metals and Metal Forming(16)	162.96		21.30	9.99	5.64	164.36	163.40			
•	CONSUMER GOODS	,			1	1 2.2.	,	-	, (ļ	:
11	(DURABLE) (49)	216.77	-1.1	15.59	5.89	7.91	219.24	218.63			
12	Lt. Electronics, Radio, TV(14)	313.65	-15	11.66	4.23	10.96	318.34	317.53	3 317.86	316.30	342.70
13	Household Goods (14)	106.37	-0.4	27.79	10.36	4.25	106.82	106.38	- ,		176.13
14	Motors and Distributors (21) CONSUMER GOODS	102.55	-0.3	24.30	9.71	4.89	102.83	102.40			129.45
21	(NON-DURABLE) (173)	216.32		18.85	7.27	6.52	219.16	218.47			262.56
22	Breweries (14)	267.87	-2.0	16.53	6.56	7.11	273.39	273.40			297.00
23 24	Wines and Spirits (5)	304.48 290.92	-0.7 -2.0	17.89	6.13	6.89 6.30	306.54 296.83	306.14			335.19 366.84
25	Entertainment, Catering (17)	192.93	-0.5	20.51	7.47	5.97	193.88	297.00 191.90			230,22
26	Food Retailing(13)	302.11	-0.5	13.05	4.66	9.22	303.71	302.00			315.86
32	Newspapers, Publishing (13)	417.13	-05	24.71	7.26	5.38	419.39	419.48			476.09
33	Packaging and Paper (15)	130.24	+0.2	24.49	8.97	5.03	129.97	130.88			150.09
34	Stores(43)	213.88	-21	14.21	5.45	9.20	218.43	217.83			267.26
35	Textiles(24)	121.55	-13	29.67	12.68	4.20	123.20	122.%	6 123 <i>2</i> 2	123.06	283.52
36	Tobaccos (3)	204.05	-05	28.54	11.34	3.98	205.05	204.05			275.94
37	Toys and Games(5)	33.32	-0.5	45.13	15.23	2.73	33.50	32.89			91.94
41	OTHER GROUPS(98)	198.73	-1.0 -1.6	17.65 21.01	7.39	6.77	200.68	200.59			227.73
42 43	Chemicals (16)	294.74 187.93	-1.6 -1.7	13.35	813 7.12	5.44 9.09	299.49 191.13	300.29 190.97		299.01 193.06	319.47 269.54
44	Office Equipment (6)	109.11	-0.8	19.44	缋	5.93	110.63	110.13		110.18	147.66
45	Shipping (11)	467.95	-0.4	12.11	6.45	10.18	469.50	465.44		464.24	459.13
46	Miscellaneous (58)	240.80	-0.2	17.13	6.98	7.32	241.35	240.92		239.36	259.60
49	INDUSTRIAL GROUP (492)	224.48	-11	18,23	7.01	6.72	226.92	226.50			265.09
51	Oils (8)	715.35	-0.8	31.76	7.20	3.38	721.40	730.67	· , ——		689.83
59	500 SHARE INDEX	263.42	-1.0	20.99	7.05	5.59	266.15	266,46	265.04	264.53	299.70
61	FINANCIAL GROUP (118)	197.61	-1.1		6.24		199.78	198,81			212.19
62		212.58	-1.2	46.03	7.24	2.66	215.09	214.60	214.71	215.07	251.40
63	Banks(6)	232.54	-0.2	l <u></u> /	8.58	I = I	232.96	229.87			262.23
64	Hire Purchase (5)	200.68	-0.4	16.37	4.95	7.93	201_48	201.94		203.11	200.18
65	Insurance (Life) (10)	179.49	-2급	I - I	7.09	-	183.33	181.16		177.41	175.63
66	Insurance (Composite) (9) Insurance Brokers (10)	125.02 296.48	-18 -0.8	16.66	8.61 6.91	8.44	127.34 298.87	125.87 301.63		125.34 304.71	152.70 329.27
67	Merchant Banks (14)	104.20	-0.8 -0.2	10.00	5.99	0	296.07 104.42	301.05 104.41		102.64	101.46
69	Property (45)	387.97	-05	336	2.89	42.65	390.00	388.16		386.85	357.48
70	Miscellaneous (9)	127.61	-0.2	20.49	7.37	6.21	127.84	127.87		126.83	127.28
ㅠ	Miscellaneous (9)	212.08	-0.9	-	6.18	 -	213.96	213.09		211.42	244.64
81	Mining Finance (4)	183.56	-17	14.52	5.37	836	186.71	186.53		189.03	140.45
91	Overseas Traders (19)	386.26	-0.6	12.97	6.96	9.44	388.58	391.37		390.23	369.30
99	ALL-SHARE INDEX(750)	247.57			6.81				249,20		275.46
_	advinted noise	********		\Box	FIX	CED INTO		\neg	Tues.	Mon.,	Year
	FIXED INTEREST PRICE I	MUILES	a .	1			-	•	Abril	April	āœ

	FIXED INTEREST PRICE INDICES						Y	ELDS AR. Gross Red.	Yues., April 22	Mon., April 21	Year ago (approx.)
	British Government	Tues., April 22	Day's change %	xd adj. today	xri adj. 1980 to date	1 2 3	Low Coupons	5 years	12.62 · 12.43 · 12.43	12.53 12.34 12.34	9.27 10.18 10.76
1 2	Under 5 years	191.95 106.32	0.15 0.59	-	3.45 3.97	4 5 6	Medium Coupons	5 years	14.41 14.64 13.89	14.29 13.92 13.79	10.81 11.47 11.65
3	Over 15 years	110.14	-0,67 -0,59	_	4.51 1.78	7 8 9	High Coupons	5 years	14.48 14.38 14.31	14.40 14.27 14.18	11.18 11.85 11.91
5	All stacks	105.85	-0.47	_	3.89	10	Irredeemable		11.79	11.72	10.58
•			-	Tues., Ap	A	lon. pril	April ! A	urs. Wed. Tue	il Apri		Year-

•		Tues, April	82 Mon. — April Id 21	Fri. April 18	Thurs. April 17	Wed. April 16	Tues. April 15	Mon. April 14	Fri. April	Year ago (appro
15	20-yr. Red. Deb & Loans (15)	49.93 14.8	0 49.89	49,82	49,85	49.74	49,62	49,68	49,49	60.75
16	Investment Trust Prefs. (15)	47,81 14.1	4 47:67	47.67	47,72	47.72	47,69	47.69	48,05	52,93
+7	Comi and Indi Prefs (20)	61 mg 44 a		e. 20	E1 E1	61 OE	51 45	61 40	61.01	74.61

ACTIVE STOCKS

		740.				
	nomin	a- of	Closing	Change	1980	1980
Stock	tion	marks	price (p)	on day	high	low
Bass	25p	6	227	- 3 °	231	188
LASMO	25p	6	520	_	535	337
Premier Cons	5p	6	73	- 2	87	394
Rugby P. Cement	-					2
"New"	Nil/t	od. 6	14 pm	1 — }	15pm	13pm
shell Transport	25p `	6	344	- 4	410	314
(ricentro)	25p		318	+ 4	334	250
Cons. Gold Fields	25p	5	474	- 2	533	385
CL	25p	5	138	– 6	145	111
CI	£1	5	362	- 8	402	353
and Securities	50p	5	315		317	244
IFI Furniture	10p	5	72	- 4	89	68
% O Defd	£1	5	120	$-\bar{2}$	1231	105
Royal Insurance	25p	5 5	318	- 4	356	307
Iltramar	25p	5	596	- ē	616	412
3P	25p	4	334	- ž	412	328
	•	_	-	_		

OPTIONS

in Hampton Trust, Premier Oil, and Courtantds. No puts were P & O Deferred, Homfray, reported, but a double was Lasmo, Montague L. Meyer, arranged in Shell Transport.

Apr. 21 May 2 Jul. 24 Aug. 4 Poseidon, Tricentrol, Pacific May 6 May 17 Aug. 7 Aug. 18 Copper, MEPC, Town and City, May 19 May 30 Aug. 28 Sept. 8 Dunlop, FNFC, United Kingdom Money was given for the call Property, Muirhead, Dundonian

RECENT ISSUES

EQ	UIT	IES

Issue Price p:	Amount Paid Up	Renuno. Date	19 High	80 Low	Stock	Price Price	 + or	Amount	Covered	Gross Yield	주 전 변년 -
50 390 310	50p F.P. F.P. F.P.	6/5	140 180 101 34 103 22	135 94 27 10	Berkley Exploration Hemerdon Mining No Morley (R.H., 10p Roche Plant 10p. Trst.ofProp.Shrs.5p., Ward Hidgs. Did	180 100 27	3 [1g	64,75 1.25	1.3 2.7		15.0 6,3

FIXED INTEREST STOCKS

£	152		1980			E 9	Ļ,
	₹£	<u> </u>	High	Low	Stock	읈	-
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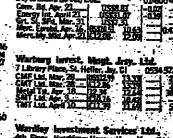
Renunciation date usually lost day for dealing free of stamp duty. b Figures based on prospectus estimate. g Assumed dividend and yield. u Forecast dividend: cover based on previous year's carnings. F Dividend and yield based on prospectus or other official estimates for 1979. Q Gross. T Figures assumed, C Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. § Placing price to public. pt Pence unless otherwise indicated. I Issued by tender. [] Officred to holders of ordinary shares as a "rights." ** Issued by way of capitalisation. §§ Reintroduced. If Issued to connection with reorganisation, merger or takeover. [§] introduction. [] Issued to former preference holders. [] Allotment latters of fully-peid). • Provisional or partly-paid allotment letters. * With warrants. If Unlisted security. It Issued as units comprising 2 participating pref. shares and 1 ord. share at R3.50 per unit. † Dealings under special rule.

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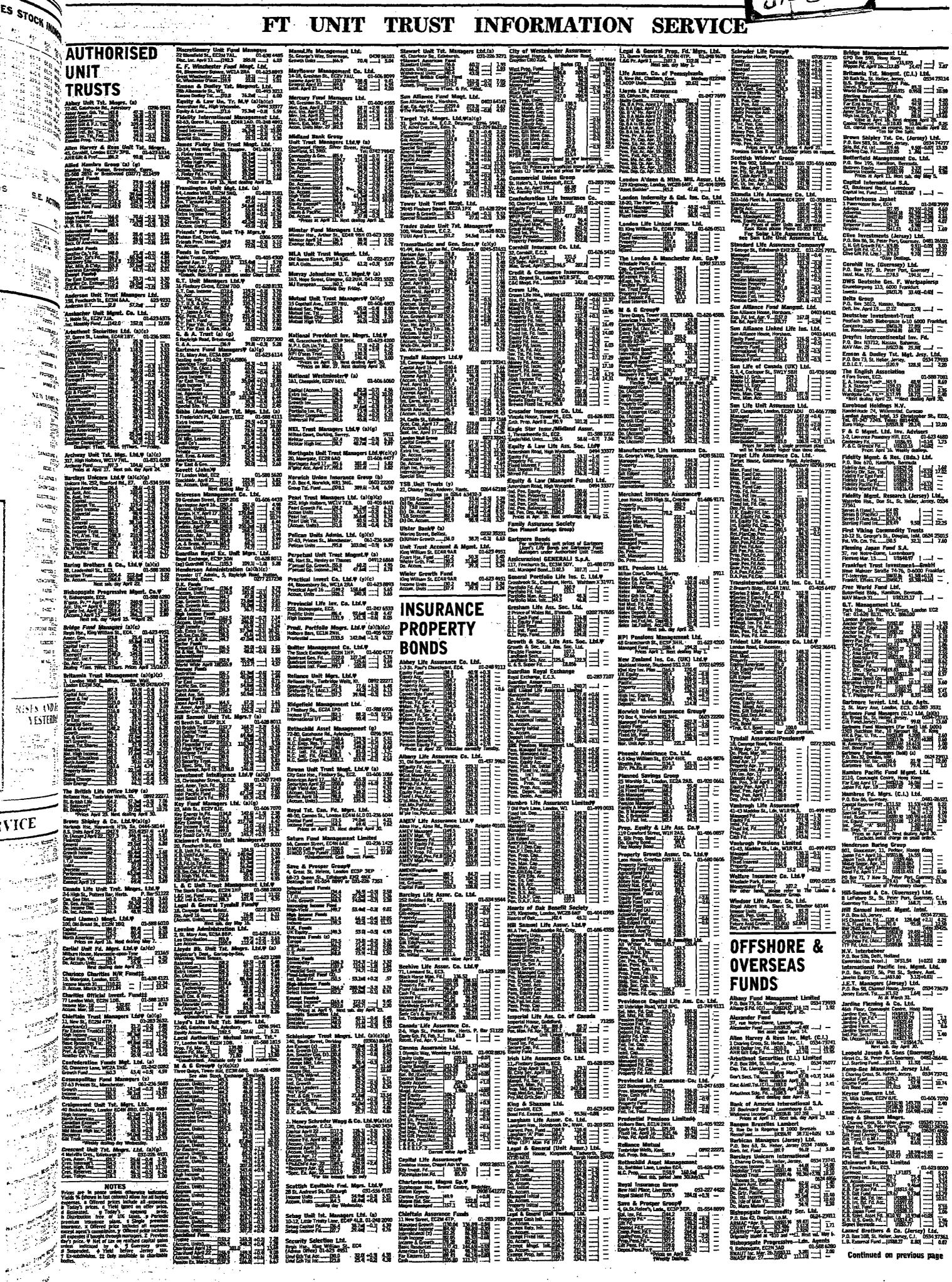
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U.S. increase by 1.4%

By David Buchan in Washington

CONSUMER prices in the U.S. rose 1.4 per cent in March, as in the previous two months, putting the inflation rate, which has become the sharpest issue in the Presidential election campaign, on a plateau.

The steady March increase in the Consumer Price Index was caused by higher food, housing and clothing costs—only frac-tionally offset by a slower rise

in energy prices.
The Government reported that for the first three months of 1980 the index had risen at a compounded annual rate of 18.1 per cent. This compared with increases of around 13 per cent in each of the four quarters of 1979.

The next several months would show no relief on the voice snow no rener on the inflation front, Mr. Paul Voicker, chairman of the Federal Reserve Board, said in a television interview before the latest index figures were released. He based this warn-ing on two factors—the 10 cents a gallon petrol conservation fee which President Carter is to impose, and the fact that mortgage interest rates, a significant component of the Consumer Price Index, would react slowly to the recent easing of money market rates.

Record

President Carter and his economic officials hope inflation will start dropping sharply by the end of the year—to 12.8 per cent compared with the fourth

quarter of 1979. Mr. Volcker, of the constitutionally independent Central Bank, said this was quite likely, but bringing the inflation rate back below 10 per cent would be very hard, unless the U.S. improved its dismal productivity

He saw no reason why rates should not decline, provided there was some slackening of inflation on the horizon coupled with firm evidence of weakening in the economy. Economic activity showed "every sign of having declined"

But no one at home or abroad should interpret the recent decline in U.S. interest rates as a change in the Fed's policy. It was still sticking to its and the fall in rates was only a proper reaction to weaker credit demand.

Mr. Volcker said there was therefore no cause for the dollar to come under serious international pressure in the coming months. A weaker U.S. economy this year would also suck in less imports and so stem the trade

Mr. Volcker, a strong believer in free market processes, showed his distaste for the direct credit controls introduced on March 14 by President

Continued from Page 1

Iran

is said. There was some satisfaction among EEC Foreign Ministers last night that they had delivered most of what Presi-dent Carter could reasonably have expected. The action will be in line with the sanctions programme which would have been adopted by the UN in January but for a Soviet veto. There was no equivalent confidence that the measures to be taken would secure the host-

ages' release.

The possibility that the U.S. will move to military action to break the stalemate remains real. But the delay in implementing an EEC programme until mid-May means that the EEC allies may have some leverage with which to argue that the U.S. should stay its military hand well into June or July, by which time the Iranian Parliament may have met, according to a timetable

Prices in | Isle of Grain work will stop in June

CONSTRUCTION work on the Workers' Union which represtrike torn Isle of Grain power sents some 500 site workers, station, planned to be Europe's said last night the news was 2,000 jobs, the Central Electof commonsense." tricity Generating Board said yesterday.

The future of the £560m sta-

tion in Kent has appeared uncertain for months because of stewards and local leaders, the prolonged dispute about A total of £450m has been the prolonged dispute about bonus payments for 27 laggers. It has already resulted in 600 redundencies this month.

But this is the first time the board has spelled out its intentions. It follows warnings that if a solution were not found to the dispute, more redundancies would be likely in the summer.

Union leaders in the General and Municipal Workers' Union, to which the laggers belong, recently indicated that they may press for a public inquiry. They say the project has been disrupted by commercial difficulties more than by labour relation problems.

George Henderson, national construction secretary in the Transport and General frogging.

It was being taken up by union representatives in civil engineering, and a meeting would be called of shop

spent on the station, although only one of the five generating units is completed and working. A decision will have to be taken on whether to dispose of millions of pounds worth of equipment stored on the site, or mothball the project. The board said: "We will

make the site safe and stilly do all we can to try to get a solu-tion. But, looking at the current situation, it does not appear very likely that we will find one." The row about bonus pay-

ments concerns a straightforward claim by the municipal workers' union that payments to laggers should be openended, but employers fear leap-

· Union and thermal insulating contractor representatives met at the beginning of this month largest oil powered station, will "tragic." But the problem to try to find a solution, after end in June with the loss of could be solved "with a bit a compromise on bonus paya compromise on bonus pay-ments put forward by Mr. Len Murray, TUC general secretary.

Unions say the attempt failed because the generating board insists on dictating terms. Martin Dickson writes: Lower

than expected electricity demand, the high cost of fuel oil and the need to keep a tight rein on capital expenditure mean the generating board is under no great pressure to complete the Isle of Grain station rapidly.

It is far more concerned to overcome the labour problems, before embarking on the 15,000 MW nuclear expansion programme it is scheduled to start in 1982-83.

Possible options under con-sideration include moth-balling, moving some generating sets to the new nuclear station to be built at Heysham, Lancashire, or converting it from off to coal-oil slurry.

Fiat hesitates over Seat

BY PAUL BETTS IN TURIN AND ROBERT GRAHAM IN MADRID

enterprise, is reconsidering whether to subscribe to its share of Pta 2.8bn in the Pta 6bn (£38m) capital increase of Seat, the Spanish car group, which is scheduled for the end of next month. The Spanish Government.

which has detected and become seriously worried about the signs of Fiat's hesitancy, is now considering the alternative of Japanese involvement in Seat.

officials of INI, the Spanish state holding company and cur-rently the other major shareholder in Seat, went to Tokyo and discussed INT's automotive interests with Japanese manufacturers. They raised the possibility with Toyota and Nissan of one or the other taking an interest in Seat.

Fiat, Italy's largest private a Pta 12bn capital increase, half troubled Spanish car company financial restructuring to be funded by a group of six Spanish banks.

Fiat already controls 41 per cent of Seat, against INI's holding of 39 per cent. As a result of a takeover plan approved last May it is due to increase this stake to 81 per cent by buying shares from INI by the end of Fiat's willingness to go along with the second phase of capital-

raising next month is regarded in Spain as a key indication of its future commitment to Seat. At the opening of the motor show in Turin yesterday, Sig. Umberto Agnelli, the Fiat managing director, indicated that his company was now "reviewing the position." Sig. Agnelli confirmed that

Seat's capital-raising opera- Fiat and INI were holding contion is the second tranche of sultations on the future of the

of it already complete, which is which has been directly hit by in turn part of a major Pta 50bn the slump in hte Spanish car market and by recent Governtrolling inflation in Spain.

In agreeing to take over Seat. Fiat assumed an enormous financial burden. It will have to cover Seat's entire 1979 loss, estimated at more than \$180m.

With stocks of unsold cars now standing at more than 60,000—and after a 24 per cent drop in Seat's first quarter sales this year's losses could be even higher. In addition, Fiat has to fund its increasing equity investment in Seat and finance the investment needed to launch the Panda and Ritmo (Strada) models in Spain. In Spain it appears the INI

officials are less than happy with the results of the first full year of Fiat's management

IMF scheme 'given boost'

BY JONATHAN CARR IN BONN

THE United States freeze on action by a national government. the dollar since then has Iranian assets in U.S. banks may

At a Press conference yester-reduced the niterest of the U.S. have provided an unexpected boost to the International Monetary Fund's scheme for a substitution account.

West German Government the IMF scheme more attractive to the oil producing countries, whose support is considered essential. The proposed account will be a key issue at the meet-

pressed in the IMF's Special meeting in Belgrade last Drawing Rights (SD). These October, would not be susceptible to a A major question now is freeze or similar unilateral whether the strengthening of

day, the West German Finance of the oil producers in the subing from-among others-Saudi Arabia, providing other conditions involved in setting up the scheme can be fulfilled.

The account is intended to ing in Hamburg later this week mop up part of the world's German side feels the scheme of the IMF's interim committee. Surplus dollars — which otherThe OPEC states would be wise could be shifted quickly fully agreed by the autumn. able to pay some of their huge into other currencies at a time dollar holdings into the account, of dollar weakness. This argu-receiving in return assets exment seemed strong at the IMF in Relgrade last

A major question now is

The U.S. attitude will emerge Minister, Herr Hans Matthoefer, this week in discussion of two said the events in Iran had major technical problems. clearly not reduced the interest. These involve the interest rate to be paid to depositors in the officials feel that the freeze, im stitution account. Other officials account and the risk involved posed last November, has made say they expect substantial back in changes in the exchange rate between the dollar and the

If the U.S. shows it is willing to shoulder much of the burden in resolving these issues, the German side feels the scheme If the signs are that the U.S. would prefer to rely almost entirely on sales of IMF gold to cover the risks involved, then the scheme is unlikely to

go ahead. Lombard, Page 12

Plan to save British Enkalon

BY LISA WOOD AND CHARLES BACHELOR BRITISH ENKALON, the UK operations. More central con-

subsidiary of Akzo, the Dutch chemical and fibres group, will by its parent company at a cost of £30m to £40m. The British company, in

which Akzo has a 71 per cent share, has made a los for four It "can only be saved by a major effort on the part of the group," said Mr. A. A. London,

deputy chairman of Akzo. Revolutionary Council in Iran. into the group's European costs and interest rates.

made to strengthen the product Northern Ireland.

The planned changes are part This has been proceeding over the past five years.

The position of the UK subsidiary deteriorated in the second half of last year under the impact of cheap U.S. imports, particularly polyester textile varus and country to the lost Discussions with Algiers It is planned to integrate textile yarns and carpet yarns, already indicated by the ruling British Enkalon more closely and increases in raw material proceeding.

trol will be exercised over pro- about 2,500 people in its textile duction and sales and efforts activities in Leicester and

Mr. R. L. Schierbeek, the company's chief executive, said of long-term restructuring of Akzo's participation in the UK Akzo's synthetic fibres activities. company's revitalisation and modernisation was :: long term." There was no question of immediate massive injection of

It is not certain whether jobs

Akzo results, Page 29

BL Longbridge idle after walkout

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT PRODUCTION of BL Cars' tective clothing.

Blini and Allegro models was at attempt to enforce the condi- strong case. tions of the new pay package.
Longbridge, where the £235m

Mini Metro will soon go into management's ability to imple- of other workers. ment proposed new work prac-

In its first move against the Mini and Allegro models was at In its first move against the June, when production of the a standstill at Longbridge, Birrestrictive practices it says are Mini Metro is to be stepped up.

According to BL payments to the 48 are an anomaly, as the men are not required to wear work practices finally collapsed threatening to sack workers who do not accept the new terms of mass production, will test the clothing any different from that yesterday with the decision by do not accept the new terms of

ment proposed new work practices.

An early and successing controlled frontation with the frontation would clearly help to work.

The management told 48 men the management gradually to Of the 18.500 workers who who rubbed down car bodies erode opposition to flexibility walked out on official strike in Jaguar disputes provided clear before painting that under the in the use of labour. But the protest at the company's evidence of the problems that new agreement they were not comparing the details of the equally determined to mount a age unilaterally, only the 3,000 implementing the details of the

on which they will fight,

chairman.

An early and successful con- factory, Birmingham, to return piece confrontation with the

ances "-payments of up to campaign of resistance and can employees at the two Jaguar controversial package. £8.25 a week for donning pro- be expected to choose the issues plants in. Coventry have re-

They are disputing a proposed new pay structure, and will meet mingham, last night with 6,000 crippling productivity, the could prove the crucial period today to reconsider their positive by a large group of test at the companys first believes it has an especially Sir Michael Edwardes, the BL unrest by a large group of would not rid the company of unrest by a large group of workers who believe they have

,600 workers at the Sherpa van employment, has won the set-

BL annual report, Page 8

Likely successor to BSC chairman

By John Elliott in London and Ian Hargreaves in New York

A 67-YEAR OLD Scottish engineer who has lived in the U.S. for more than 35 years is the gront runner to succeed Sir Charles Cilliers as chair-man of the British Steel-Cor-

poration. He is Mr. Ian MacGregor, who is due to fly to London early next week for talks with the Government about the details of the £48,500-a-year job. It falls vacant when Sir Charles retires in September.

Mr. MacGregor is best known as the former head of AMEX (American Metal Climax). But he also hit the headlines in the UK a few years ago when he was rumoured as a possible chair-man of BL he then became a non-executive director of the company and in 1977 was made non-executive deputy chairman to Sir Michael Edwards, a post he still holds. In New York yesterday, where one of his main hustness impress is being ness interests is being a partner in Lazard Freres, the investment bank, he said: "I ar one of several people who have been approached about the BSC job and I expect to have talks in London next

Mr. MacGregor's name has been rumoured for the job for some weeks, although there have been worries about whether he would be prepared to give up his Conneticut bome and his many inter-3national business interests.

Land offer in Stansted

PLANS BY the British Airports Authority to acquire up to 1,500 acres near Stansted Airport, announced yesterday. The authority said it was prepared to pay "fair market prices," with compensation for disturbance caused, similar to that payable if the properties

were purchased compulsorily.
The authority will seek to
safeguard 2,500 more acres
against unnecessary development, and would consider buying land and properties there as soon as it can. Powers to do this are in the Civil Aviation Bill now before Parliament, expected to become law by November.

The authority's decision stems from the Government plan to develop Stansted, as the third London Airport, from its present 400,000 passengers a year to about 15m by the late 1980s. This development is subject to a public planning inquiry.

"We intend applying this summer for permission to build the new terminal," said the authority yesterday. "The public inquiry is expected to open early in 1981 and continue for the rest of the year."

Weather

UK TODAY MAINLY dry, cloudy; some rain England, Wales. Isle of Man,

Borders.
Dry, cloudy with bright intervals. Max. 11 to 14C (52 to

Elsewhere: Cloudy, hill fog. occasional rain. Max. 8-13C (46 to 55F). Outlook: Rain or drizzle, chiefly in N., and E. Bright

WORLDWIDE

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THE LEX COLUMN

Pernod's challenge to Grand Met

The movement towards a wider embarge of Iranian oil. imports has rekindled the exchange market's interest in the North Sea, and the recent fall in enrodollar rates makes sterling deposits highly attractive again. Yester-day the pound returned almost to the peaks of last summer on its trade-weighted index, which, given the UK's continuing high inflation relative to its trading partners, implies a further significant erosion of the competitiveness of British industry since then. In gitedged, however, profit-taking in recent issues of stock overrode the strength of sterling, and long-dated issues fell by around point.

Grand Met/Liggett

It has not taken long for the first major twist to emerge in Grand Metropolitan's conten-tious offer for Liggett Group. The latter has blandly agreed the sale to Pernod of the wines and spirits subsidiary Austin Nichols which Grand Met was keen to buy last year but which it was told was not for sale. Unlike in the UK, there is no Takeover Panel to block such manoeuvrings during the period of a takeover offier; but Grand Met and other Liggett shareholders will no doubt be able to consider legal action to present the disposal of a key. prevent the disposal of a key

asset at this juncture. Shareholders could claim that the disposal is designed to frustrate their opportunity to consider the \$50 a share cash offer, and indeed Grand Met put its offer on the table partly because it feared that Liggett was planning substantial asset sales. Alternatively, Grand Met might consider outbidding Pernod for Austin Nichols. The problem here is likely to be the price, for \$971m represents over 20 times underlying earnings, and sheds a rather less flattering light on the \$466m value which the Grand Met offer places on the whole of

Docks Board

the possibilities.

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Compared with most other UK port authorities the British Transport Docks Board is no doubt a powerhouse of expansion. But yesterday's figures revealing a 10 per cent decline in profit after historic cost depreciation to £26.8m in 1979 adjusted accounts.

This is all slightly absurd. Far East, but it is proving much an open cent of its earnings in the country will not be a feature of the planned launch of 49 per cent business which overstates its the right sort of investment of the plant. of the company on the stock

Index fell 6.8 to 434.3:



Before the flotation, two aspects of the balance-sheet willneed to be sorted out; the capital structure and the valuation of the fixed assets.- At the end of the fixed assets. At the end of 1979 loans, practically all from the Government, totalled 51 per cent of the capital employed and presumably this gearing could be made more manageable by replacing part or all the debt with equity. Total conversion would create a group with net worth of £176m, and this could be bolstered by a revaluation of fixed assets. Currently, for instance, land is assessed at transfer values in 1963 and 1968.

The rapid expansion of the early 1970s as the group was turned round is now over and the prospects for the next couple of years appear rather shuggish. So a p/e multiple on the actual tax charge of about the market average of 6f produces a valua-tion of £100m, assuming the conversion of debt to equity. This would be at a handsome discount to net worth.

In its 1978 accounts, BL decided not to produce current

cost figures because of the un-certainty over the proposed-accounting standards. This ex-

profits (or, more usually, under-opportunities in places like states its losses) by failing to Hong Kong and Singapore.

provide a proper depreciation charge. The ground is still operating entirely stricten off fixed assets which originally cost it Isomo is an especiated sterling.

His seems to that up its accounts more in order to permit eventual compliance with some target dreamed up by the NEB than to encourage understanding of its bineriess. There is no quantative binesticion of the car side; operations—if advialing the 1973 report is even less informative than the previous years. The company talks to provide fully for the anticipated costs of its restructions programme for some turing programmer for some reason the anditors concur with a

. In the absence of information there is nothing for it but to guess, and it seems reasonable it to estimate that in real terms BL was losing more than £200 to on each of the 685,000 vehicles of it sold last year.

At least the 1979 cash out the flaw was held to 1934m—a the reasonable figure in the circum free stances. The NEB's scheme to finance BL's vehicle stocks is budged clearly coming in useful here budged in the capital spending will remain high this year, however, and the group's new 1200m of equity at looks unlikely to last very long, price at hough the NEB's ablighing green conversion of debt into equity green conversion of debt into equity green will save f15m of finance costs but this year.

Thomas Tilling

Thomas Tilling has achieved that what if describes as a "pleas of the year, and it is not is happy with all but one of its day a recent clutches of U.S. acquising the exception being the min pulsar property. insulation company Clecon George which has run into competitive least p conditions. In sharp contrast the apparently more speculative new interests linked to the oilal to

and gas exploration sector are few doing very nicely.

The annual report sets out in B. figures the scale of the recent acquisitional surge, leading to a sing o cash outflow of £88m in 1979, 3 113 case is no longer available, so financed mostly by the eriginal page. BL has had to fall back this those. But Tilling is now fairly year on years talk about home riose to its toront of 20 per cent. "impractical" it is to assess the _to 25 per cent of earnings from gitte!

costs attributable to its older the U.S. It would like to comassets in order to explain its plete its geographical re-orienta; in a failure to provide inflation tion by picking up around 10 m mills adjusted accounts.

Concern Shi cakii Ban bar b

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